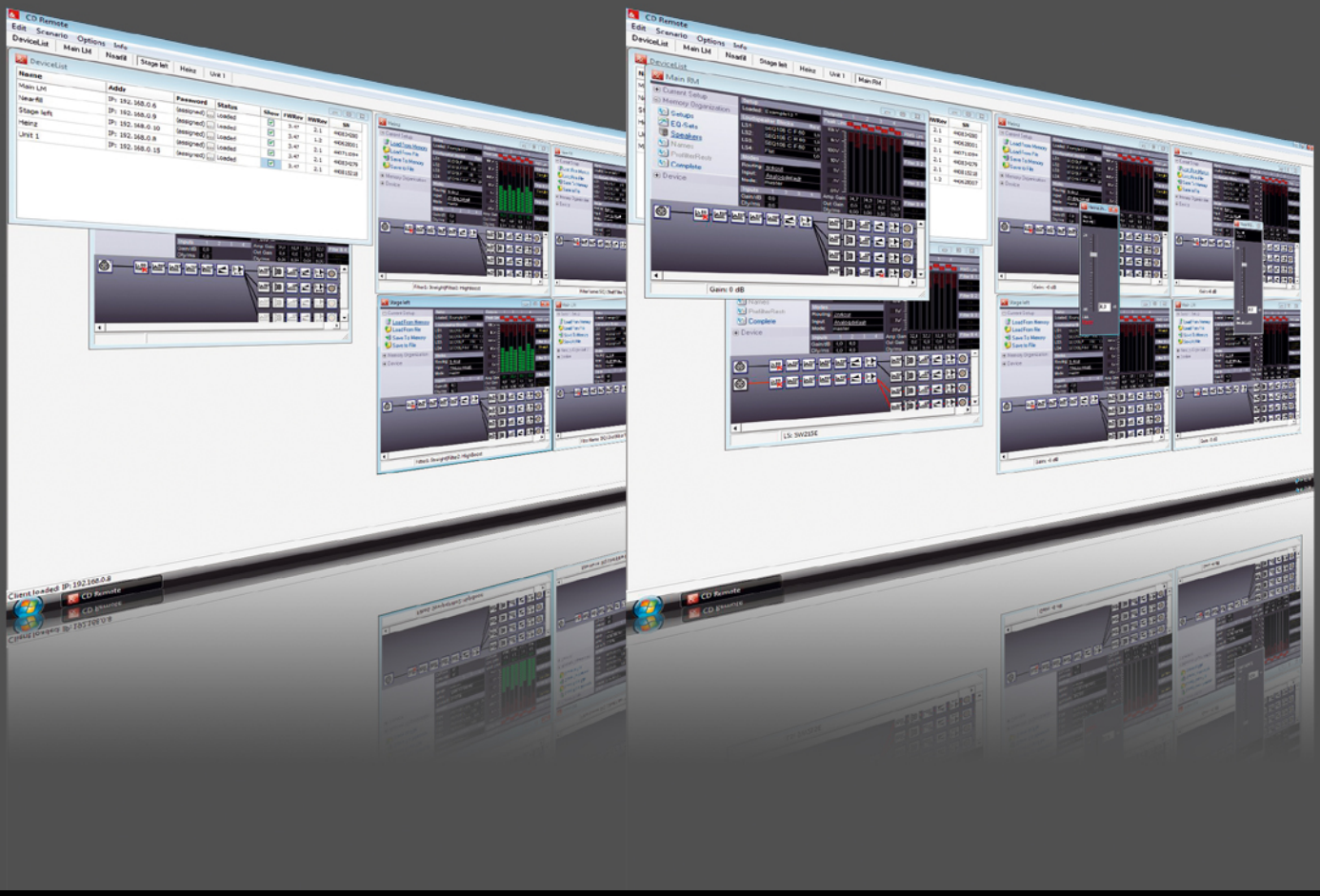
CD Remote for K&F CD 24 / CD 44



User's Manual

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Important Information, Please Read Before Use!

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SOUND SYSTEMS

Table of contents

1	**Introduction**	**6**
1.1	Symbols in User's Manual	6
1.2	Information about this User's Manual	6
2	**General Information**	**7**
2.1	Extent of this Manual	7
2.2	Terminology	7
2.3	Overview of the software windows	9
3	**Scope of Delivery**	**10**
4	**Product Description**	**10**
5	**Requirements**	**10**
5.1	Personal Knowledge	10
5.2	System Requirements	10
5.3	Requirements for the CD 24	11
5.4	Requirements for the CD 44	11
6	**Connection to the Computer**	**12**
6.1	Connection of the CD 24	12
6.2	Connection of the CD 44	12
7	**Installation**	**12**
7.1	Installation of the Software	12
7.2	Setting Up the IP Addresses	13
7.2.1	Setting IP Addresses for the PC	13
7.2.2	Setting the IP Address on the CD 44	14
8	**Passwords and Access Rights**	**14**
9	**Starting the Software and Logging On the Controller**	**16**
9.1	Starting the Software	16
9.2	Logging On the Controller	16
9.2.1	Selecting the IP Address of the PC in the Software	16
9.2.2	Selecting the COM Port	17
9.3	Calling the Controller in the Software	17
10	**Menus in the Main and Login Windows**	**18**
10.1	Short Description of Main Window Menus	18
10.1.1	Global settings	20
10.2	Menus of the Login Window (DeviceList)	21
11	**Changing / Saving Device Settings**	**22**
11.1	General Procedure for the System Setup	22
11.1.1	Brief Description of the Menus in the Device Window	23

11.2	Load and Save Current Setups (Current Setup)	23
11.3	Changing General Settings (Device)	25
11.3.1	Changing the Controller Name (Name)	25
11.3.2	Changing Passwords (Passwords)	25
11.3.3	Changing the User Group (Device Mode)	26
11.3.4	Device Info	26
11.4	Organizing the Controller's Memory (Memory Organization)	27
11.4.1	Organizing Setups	27
11.4.2	Organizing Equalizer Presets (EQ-Sets)	28
11.4.3	Organizing Speakers (LSBlocks)	29
11.4.4	Complete Backup	30
12	**Input Patching (Input Configuration)**	**32**
12.1	Available input patchings	32
12.2	Selecting Patchings	32
13	**Routings**	**33**
13.1	Available routings	33
13.2	Selecting Routings	33
14	**Setting Filters, Limiters and Delays**	**34**
14.1	Overview of the Symbols	34
14.2	Changing Parameters	34
14.2.1	Parametric Filters	35
14.2.2	Anti Air-loss Filter	36
15	**Link manager, links of function blocks**	**39**
15.1	Linking Function Blocks	40
15.2	Organizing and Deleting Links	41
16	**Scenarios**	**43**
16.1	Loading Scenarios	43
16.2	Saving scenario	43
17	**Working with Virtual Controllers (Offline Devices)**	**44**
17.1	Creating Virtual Controllers	44
17.2	Deleting Virtual Controllers	45
17.3	Transmitting Settings between Virtual and Real Controllers	45
17.3.1	Transfer Scenarios from Virtual Controllers to Real Controllers	46
18	**Updating the CD Remote Software**	**48**
19	**Replacing the IP Card and Updating the Firmware**	**50**
19.1	Safety Instructions	50
19.2	Replacing the IP Card	50
19.3	Updating the Firmware	51

19.3.1	Downloading Firmware	51
19.3.2	Starting the Flashloader	52
20	**Index**	**54**

1. Introduction

Thank you for your decision to buy a KLING & FREITAG product. Before starting the software please read the manual properly to ensure a failure-free operation. As a user of the software you now have a versatile and highly professional tool which, when operated properly, is a true pleasure to use

1.1 Symbols in User's Manual

Warning

This symbol indicates the possibility of life-threatening danger and a health risk for persons. Not following these instructions may result in serious health problems including potentially fatal injuries.

Caution

This symbol indicates a possibly dangerous situation. Not following these instructions may cause minor injuries or cause property damage.

This symbol gives instructions for the proper use of the described products. Not following these instructions may cause malfunctions or property damage.

Tip

This symbol indicates notes that help you to handle the described products easier.

1.2 Information about this User's Manual

All specifications in this manual are based on information available at the time of publishing for the features and safety guidelines of the described products.

The manufacturer reserves the right to make product alterations within legal provisions as well as changes to improve product quality.

All persons who use the speaker system must have this guide and all further information for safe operations available to them during assembly, disassembly, and use. The speaker system may neither be set up nor used until this manual has been read, understood and kept readily available on site.

We appreciate any input with suggestions and improvements for this manual. Please send this to us at the following address:

info@kling-freitag.de or to:

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2. General Information

2.1 Extent of this Manual

This manual is for the software enabling the remote control of the CD 24 and CD 44 System Controllers using PC software (remote software). If the controllers are equipped with different functions, this will be specially indicated.

This manual supplements the manual that was provided with the Controller itself (hardware manual), therefore you will not find any detailed descriptions of the individual features (i.e. of the filters). When such features are mentioned, you will find references to the relevant pages in the hardware manual. Additional functions that are only available using the software are described in detail in this manual.

Caution

Please observe the chapter "General Safety Instructions" in the hardware manual for the K&F Controller CD 24 / CD 44. This is especially important for the connections and the installation location of the controller.

2.2 Terminology

Complete
Function to save a backup copy of all controller data (Complete Backup). File extension *.dcc

EQ-Set
Settings for the graphic equalizer that can be separately saved and loaded. File extension *.dec

Firmware
The software that is installed in the controller is called "Firmware" in this manual.

Function Blocks
The Controller CD 24 / CD 44 is equipped with various functions that are called Function Blocks:

- Graphic Equalizers (CD 44 only)
- Input Gains
- Input Delay (CD 44 only)
- Limit Reduction
- Output Gain
- Output Delay

Input Patching
With the input patching, you can configure the physical inputs. This way, you can, for example, correct physically flipped inputs in the controller without having to change the actual connectors, you can select if you want to connect a digital or analogue signal to the inputs or you can create a mono-sum of the inputs 1 and 2.

Link/Link Manager
Links connect corresponding Function Blocks and are controlled by the Link Manager, which can also create links between several controllers. The entry Link in the device window only provides an overview of the links. See Chapter [Link Manager] on page 39.

Memory
Refers to the memory that is installed in the controller. See Chapter [Organizing the Controller's Memory (Memory Organization)] on page 27.

Offline
In the login window, you have the possibility to create virtual controllers – so-called Offline Devices. On these controllers, you can edit the settings to transfer them to a real controller later. See Chapter [Working with Virtual Controllers (Offline Devices)] on page 44.

Online
If the CD Remote Software recognises real controllers connected to the PC, the software refers to them as Online Devices.

Scenario
Scenarios include the setups and settings of all opened controllers' graphic EQ's, all set links, and the position and size of the software interface's individual windows. You can save and load scenarios. See Chapter [Scenarios] on page 43.

Setup
Setups are the settings of the individual routings, filters, limiters, delays, etc. that are saved in the controller or on the PC. A [Current Setup] is the active setup in the controller.

There are various example setups saved in the controller, the so-called "Examples".

The settings of the graphic equalizers do not belong to the setup; these can be saved separately.

See Chapter [Load and Save Current Setups (Current Setup)] on page 23.

Routing
The routings determine how one or several input signals can be switched to the outputs and which path these signals will take. You can find detailed descriptions of examples with the corresponding circuitry and connection diagrams in the hardware manual.

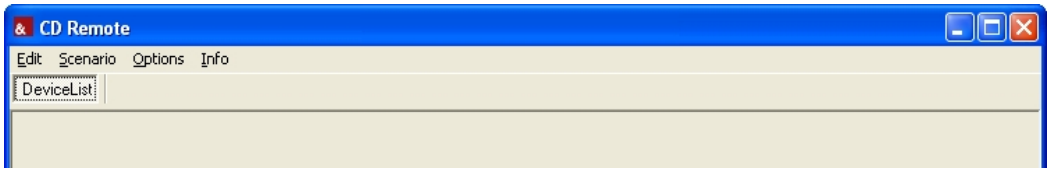
Software
In this manual, the software that you install onto your PC is referred to as "Software" or "Remote Software".

Speakers
Speakers correspond to the LSBlocks in the controllers. These are speaker-specific sets of parameters that have been specially created for available K&F speakers. You must assign the Speakers to the controller outputs; the Speakers must correspond to the real speakers that are to be connected there.

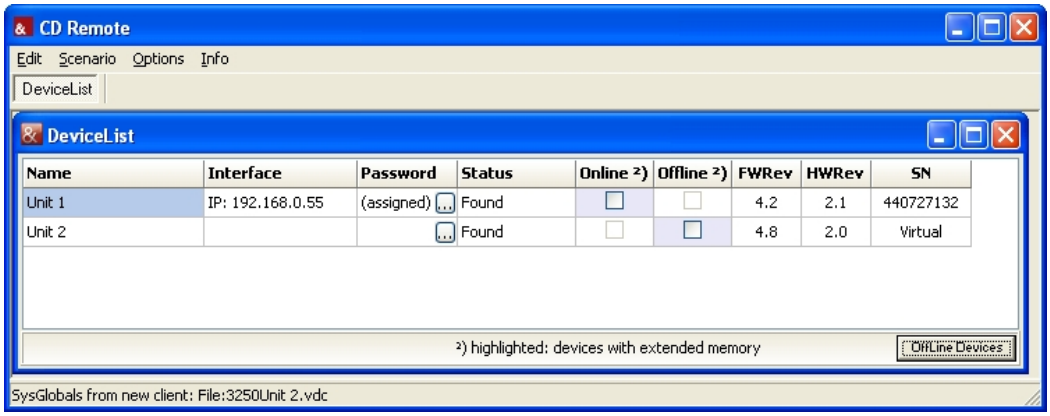
2.3 Overview of the software windows

The most important windows in the software interface are the "Main Window" where the software runs, the "Login Window," and the "Device Window". If several controllers are logged on, then the corresponding number of device windows may be open. Via the device window, the respective sub-window can be opened for the relevant controller's settings. In the software, the main window is labelled with ***CD Remote***, and the login window with ***DeviceList***. Each device window shows the name of the controller in the top frame.

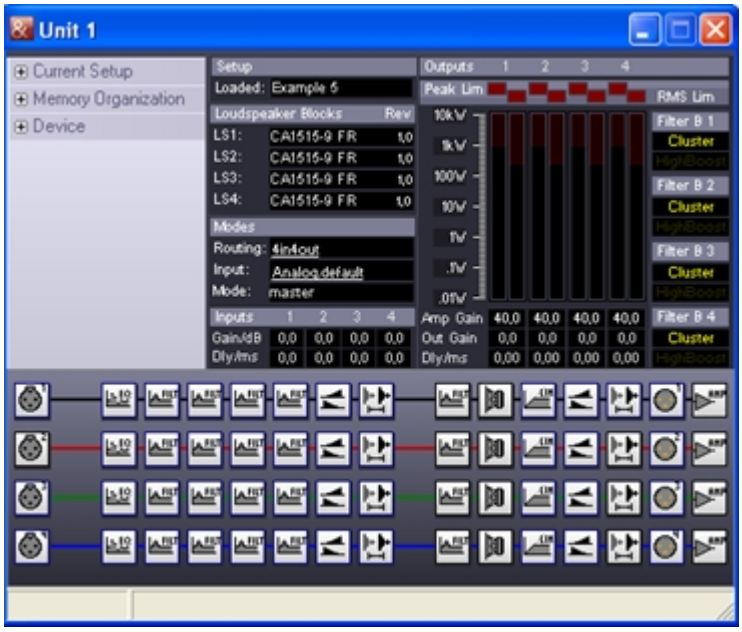
Main Window:



Login Window:


CD Remote
Edit Scenario Options Info
DeviceList
DeviceList
Name Interface Password Status Online ²) Offline ²) FWRev HWRev SN
Unit 1 IP: 192.168.0.55 (assigned) Found 4.2 2.1 440727132
Unit 2 Found 4.8 2.0 Virtual
²) highlighted: devices with extended memory
OffLine Devices
SysGlobals from new client: File:3250Unit 2.vdc

Device Window:



3. Scope of Delivery

The latest version of the remote software for operating the controller can be downloaded from the Kling & Freitag website (www.kling-freitag.de). In addition to the remote software, this package also contains the user's manual as a PDF file and software for updating the firmware (Flashloader), including up-to-date firmware as well as the data for the current K&F speakers (Speakers / LSBlocks).

4. Product Description

With the software, you can carry through and administrate all settings on the Controller CD 24 / CD 44, i.e.:

Organizing setups on the hard drive and loading to/from controller
You can load and edit the current settings from the controller's memory (from Memory) and save them onto your PC (to File) or in the controller (to Memory).

Creating and saving scenarios
You can save all settings of all opened Controllers – including the setups, links and the graphic EQ-settings – onto the PC as Scenarios.

Linking several controllers (Master – Slave)
You can link multiple controllers with the software, enabling you to adjust the settings for several controllers simultaneously.

Backup
You can create a backup copy of all settings with the [Complete] function.

Settings

- Password administration
- Operating modes

You can find a description of the individual settings in the respective sections of the hardware manual.

5. Requirements

5.1 Personal Knowledge

To operate the controller using the remote software, you should have basic working knowledge of Microsoft Windows and be familiar with operating the Controller CD 24 / CD 44. For this, see the corresponding user's manuals.

5.2 System Requirements

Hardware:

CD 24: A PC with an RS232 or USB port incl. a USB-RS232 converter; firmware version 3.55 or higher.

CD 44: a PC with Ethernet 10/100Base-TX network connection; firmware version 3.46 or higher.

Software:

The software was tested with Microsoft Windows XP.

Operating systems other than Microsoft Windows are not supported!

You can download the relevant current remote software from the download area of the Kling & Freitag website (www.kling-freitag.de).

5.3 Requirements for the CD 24

Connect the controller to the mains voltage and determine the revision number in the controller. To do so, open the following menus in the controller:

1. Click [Util] -> [Info], [FWRev] or [SWRev].

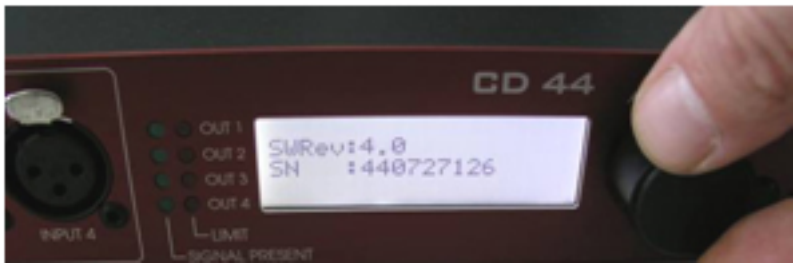
Notice

If the firmware has a revision number lower than 3.55, then you must update the firmware. To do this, follow the steps as described in Chapter "[Updating the Firmware]" on page 51. On older controllers, SWRev appears on the display instead of FWRev.

5.4 Requirements for the CD 44

Connect the controller to the mains voltage and determine the revision number in the controller. To do so, open the following menus in the controller:

1. Click [Util] -> [Info], [FWRev] or [SWRev].



Notice

If the firmware has a revision number lower than 4.0, then you must load a firmware update into the controller. With a firmware revision number less than 3.4, you must also replace the IP Card built into the controller. To do this, follow the steps as described in Chapter "[Replacing the IP Card and Updating the Firmware]" on page 50. On older controllers, SWRev appears on the display instead of FWRev.

You can request an updated IP card in exchange for the old card from K&F.

6. Connection to the Computer

6.1 Connection of the CD 24

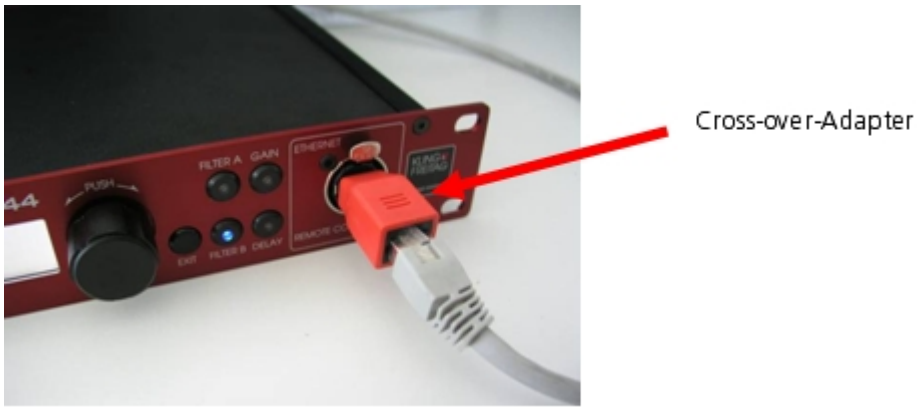
To connect the CD 24 to your computer, you have to use a RS232 cable.

Alternately, you can use the USB port of your computer. In this case, you need a USB - RS232 (male) adapter.

6.2 Connection of the CD 44

To connect the CD 44 to your computer, you have to use an Ethernet network cable and a switching hub.

Alternately, you can connect the CD 44 directly (without a switching hub) to your computer. In this case, you need a cross-linked Ethernet cable or a crossover adapter.



Some network interface cards automatically recognise the transmission and reception wires of the connected controller and adapt to them. This function is referred to as Auto-MDI(X). In this case, the type of cable used (cross-linked or normal) is irrelevant. To find out if your network interface card is equipped with Auto-MDI(X), consult your network interface card's documentation.

7. Installation

7.1 Installation of the Software

Copy the file [CD Remote Installer Vx-xx.zip] onto your PC. You can download the file from the download area of the Kling & Freitag website (www.kling-freitag.de).

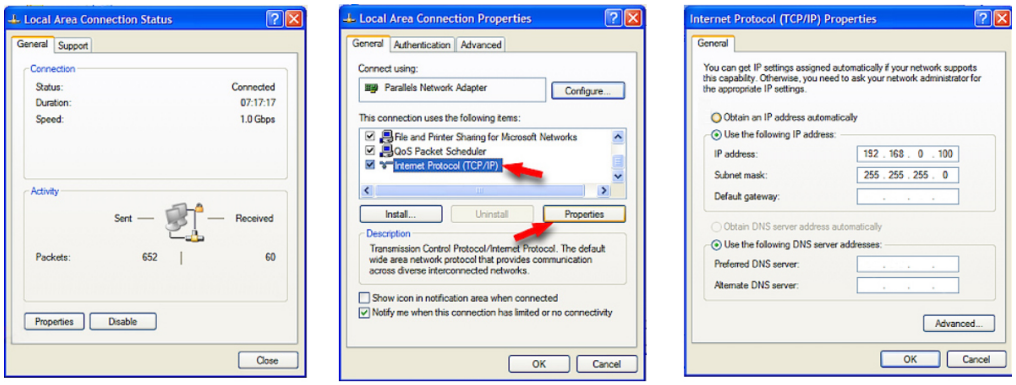
Unzip the file and start the installation with a double click on the file [CD Remote Installer VX-XX.exe] and follow the installation instructions on the PC monitor.

7.2 Setting Up the IP Addresses

CD 44 only!

7.2.1 Setting IP Addresses for the PC

1. On the Windows desktop, go to [Start] -> [Settings] -> [Control Panel] -> [Network Connections] -> [LAN Connection] (double click) -> [Properties] -> [Internet Protocol (TCP/IP)] -> [Properties] -> [Use the following IP address]



2. Set a fixed IP address (i.e. 192.168.0.100).

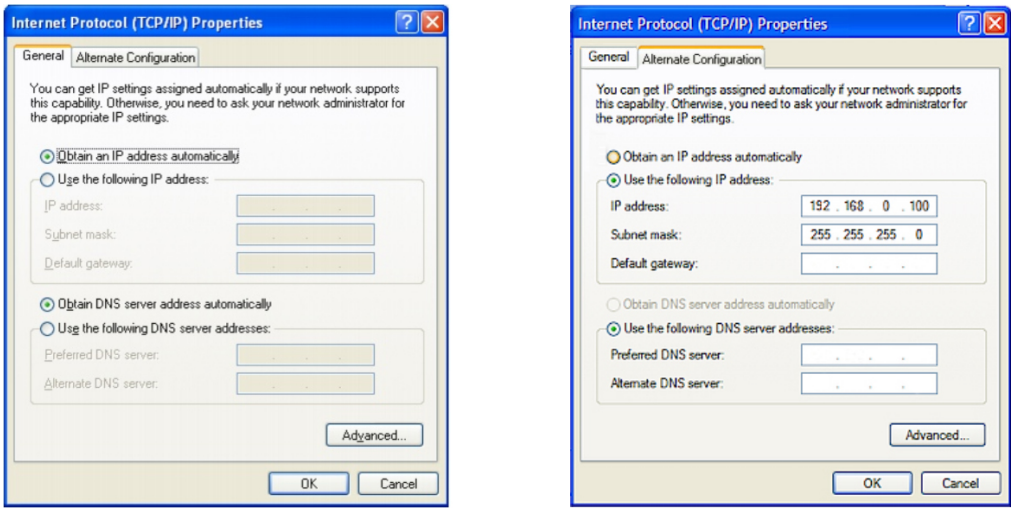
   The first three digit fields of the computer's and controller's IP addresses must be identical. The last digit field must be different, ranging between 1 and 254. If you connect several controllers, then each one must have a different final digit field or the communication will fail. Please do not change the subnet mask address 255.255.255.0 without a special reason.

   The controller's IP address that is set at delivery is 192.168.0.XX. The last two digits are identical with the last two ones of the serial number.

   192.168.xxx.xxx is reserved for private networks and is therefore recommended.

3. Click [OK] twice to save the changes.

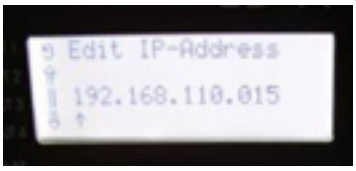
   If your system requires dynamic IP addresses, go to Alternative Configuration and enter the desired address for the controller at User-Defined. This way you can use a static IP address in a network environment with dynamic addresses. In any case, the controller itself requires a static IP address.


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel
Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 100
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

7.2.2 Setting the IP Address on the CD 44

As an alternative to the steps described above, you can change the IP address of the controller to match that of your computer. In this case, the first three fields of the IP address have to match.

1. Click [Util] -> [IP-Address].



Tip

The new IP address is valid after the controller has been restarted!

8. Passwords and Access Rights

The controller differentiates between three different access modes that are called Master, User and Lock all as well as one password for each of them.

You can find information about changing the passwords and the different modes in "[Changing General Settings (Device)]" on page 25.

Administrator Password: The administrator password depends on the serial number and cannot be changed. It is provided with a sticker on delivery and is required to change the master and user passwords. If you forget the master password, you can use the administrator password instead.

Master and User Passwords: The default password for the master mode is **master**, and for user mode **user**. Please note the lower case spelling.

Notice

We recommend that the owner of the controller changes the user and master passwords before others use it. This ensures that no settings are made by unauthorised persons, which could result in the malfunction or damage of speakers.

Passwords will be reset to the default passwords after updating the software.

The 3 different access modes:

Master:
In the master mode, the full range of operations is possible. To access this mode, you need either the master or the administrator password.

User:
Users only have access to a limited range of operations (they cannot change setups or LS blocks, etc.). This mode is appropriate when you lend out the controller, for example, and you do not want the user to make any fundamental changes or adjustments that could possibly endanger the operating safety. The corresponding functions are grey and thus not selectable in the software. To access this mode, you need the user password.

Lock all: No adjustments of any kind can be made on the controller. This mode protects the controller from unauthorized access. If a controller is started with an incorrect password or no password whatsoever, then it starts in the Lock all mode.

There is also a differentiation between the device mode and the software mode.

The **Device mode** defines the operating rights in the controller when it is not being operated with the remote software.

The **Software Mode** defines the operating rights in the remote software, irrespective of the device mode. The appropriate mode is selected by entering the password when logging in. The device window is started in the software mode that corresponds to the password entered at login. If no password or an incorrect password is entered, it is started in the Lock all mode. See Chapter [Calling the Controller in the Software] on page 17. If the controller is logged off, it returns to its original device mode.

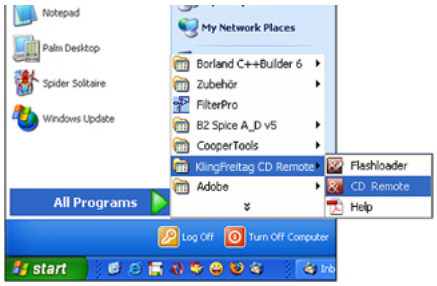
The passwords for the device mode and the software mode are identical.

If a controller is logged into the remote software, then operations on the controller itself are blocked.

9. Starting the Software and Logging On the Controller

9.1 Starting the Software

1. Click [Start] -> [All Programs] -> [KlingFreitag CD Remote] -> [CD Remote].



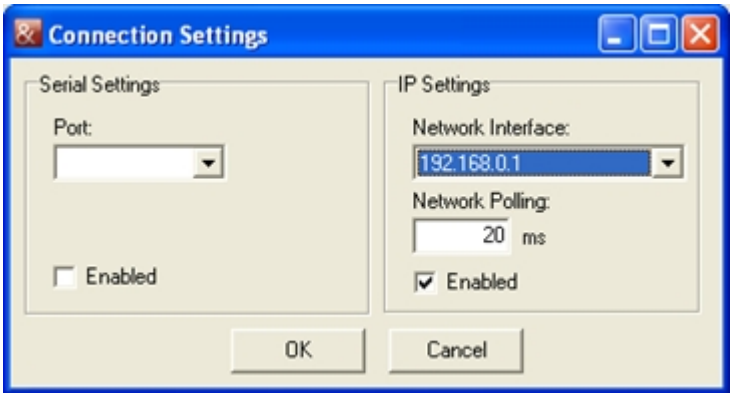
9.2 Logging On the Controller

9.2.1 Selecting the IP Address of the PC in the Software

CD 44 only!

You must select the IP address directly in the remote software. In case there are several network participants with separate IP addresses (i.e. several network adapters), you must select the adapter that you would like to use.

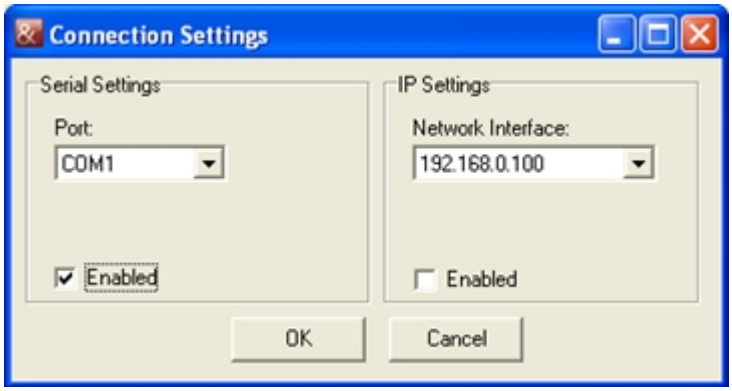
1. Click [Edit] -> [Connection Settings].
2. In the area [IP Settings]Activate the control box [Enabled].
3. Your PC's IP address is shown. If several IP addresses are assigned or several network interface cards are installed, select the appropriate IP address.
4. If your network does not recognise the controller, it is possible that it did not have enough time to scan all network addresses. In this case, increase the time for the Network Polling (a value that is too high slows its locating your controller). The maximum value is 200 ms.



9.2.2 Selecting the COM Port

CD 24 only!

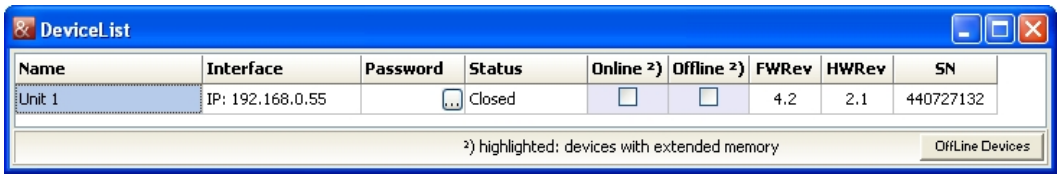
1. Start the remote software using the Windows Start menu.
2. Click on [Edit] -> [Connection Settings].
3. In the area [Serial Settings]Activate the control box [Enabled].
4. Select the COM Port that the controller is connected to.



9.3 Calling the Controller in the Software

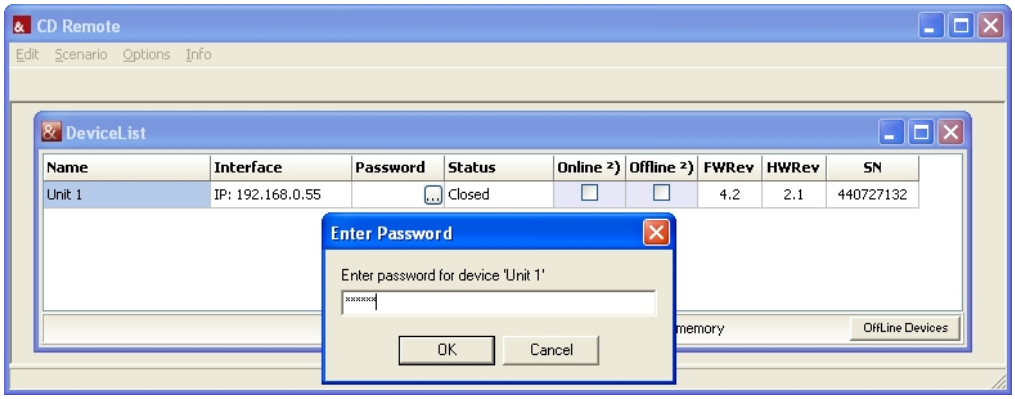
When the software has been started, it automatically looks for controllers in the network. Connected CD 44 are only recognised, though, when the first three digit fields of all controllers' IP addresses are identical and each last field has a different value. Connected CD 24 are only recognised when the correct COM Port Number is set.

After a few seconds, all of the connected controllers should be shown.



1. Click Password [...] .

   Enter the password of the access mode that you want to login to. If the software has been started with an incorrect password or no password whatsoever, then it starts in the Lock all mode.



   The PC saves each last-used password and uses it for the next login attempt.

To delete the password from the entry mask, take the following steps:

2. In the main window, click [Edit] -> [Clear Stored Passwords]

   Upon delivery, the name of the controller is "Unit 1". If you want to work with several controllers online, you must give the controllers different names. See Chapter [Changing the Controller Name (Name)] on page 25.

3. Activate the control box [Online].

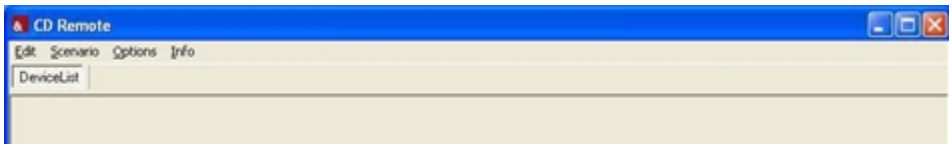
   The device window is opened and the controller is online.

   The controller's IP address and "Remote Controlled" are shown on its display, thus making manual operation on the controller itself no longer possible.

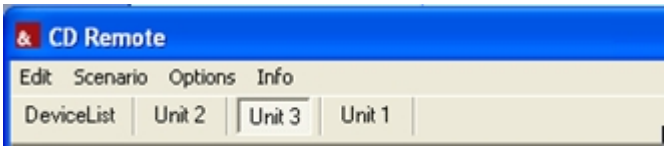
Devices with extended memory are highlighted in the DeviceList Window.

10. Menus in the Main and Login Windows

10.1 Short Description of Main Window Menus



Name	Submenu	Function
Edit	Connection Settings	Connection Settings
	Clear Stored Passwords	Clears all passwords stored in the PC
Scenario	Load from File	Load scenarion from PC
	Save to File	Save scenario on PC
	Link Manager	Link function blocks of one or several controllers. See Chapter [Link manager, links of function blocks] on page 39.
Options	Global Settings	Global settings for Anti-Air-Loss filter and for activation and storage directory of the Complete Defaults for offline devices.
Info		Software version information



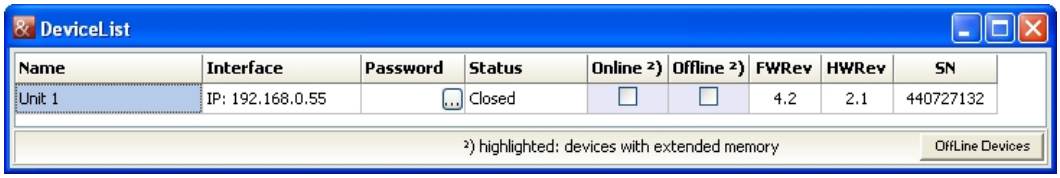
Name	Function
DeviceList	Brings the login window to the front
Unit 1, Unit 2, [device name]	Device window of the corresponding controller is brought to the front

10.1.1 Global settings

Change global settigns at: Click [Options] -> [Global Settings].

Setting	Function
Delay/Units	Choose the delays in meters or milliseconds
Velocity	Acoustic velocity
air attributes	H: Relative humidity T: Air temperature
Offline Devices	Activate the checkbox if Offline Devices (virtual devices) should have complete preset data and settings. In the menu, enter which setting file should be loaded after creating a virtual controller. The checkbox is activated by default and the [CDX4 Complete Defaults VX-XX.dcc] provided upon delivery is loaded. To create your own Complete Defaults, follow these steps: In the device window, click [Memory Organization] -> [Complete] -> [SaveToFile]. Refer to chapter [Working with Virtual Controllers (Offline Devices)] on page 44.

10.2 Menus of the Login Window (DeviceList)



Name	Function
Name	Name of the CD 24 / CD 44 Controller CD 24 / CD 44
Interface	IP address of the CD 44 / COM Port of the CD 24
Password	Password (“assigned” indicates that a password for the controller has been saved on the PC)
Status	Found: Controller recognised Loaded: Controller signed on and setup loaded Closed: Controller signed off.
Online [2])	This checkbox is only available for controllers that are connected with the computer. If this checkbox is activated, the device window opens and the controller can be operated using the software. It is no longer visible for other users in the network.
Offline [2])	This checkbox is only available for virtual controllers. If this checkbox is activated, the device window opens and the virtual controller can be operated using the software. Refer to chapter [Working with Virtual Controllers (Offline Devices)] on page 44.
FWRev	Firmware version
HWRev	Hardware version (circuit boards)
SN	Controller’s serial number

2) Devices with extended memory are highlighted in the DeviceList Window.

11. Changing / Saving Device Settings

Changed settings are saved onto the controller in intervals of approx. 5 seconds so that any changes to the settings are saved in the case of a loss of power, for example. If you switch off the controller, these settings remain active. The changes made to the setups, however, are not saved automatically. You must manually save them after finishing the settings. Refer to chapter [Load and Save Current Setups (Current Setup)] on page 23.

11.1 General Procedure for the System Setup

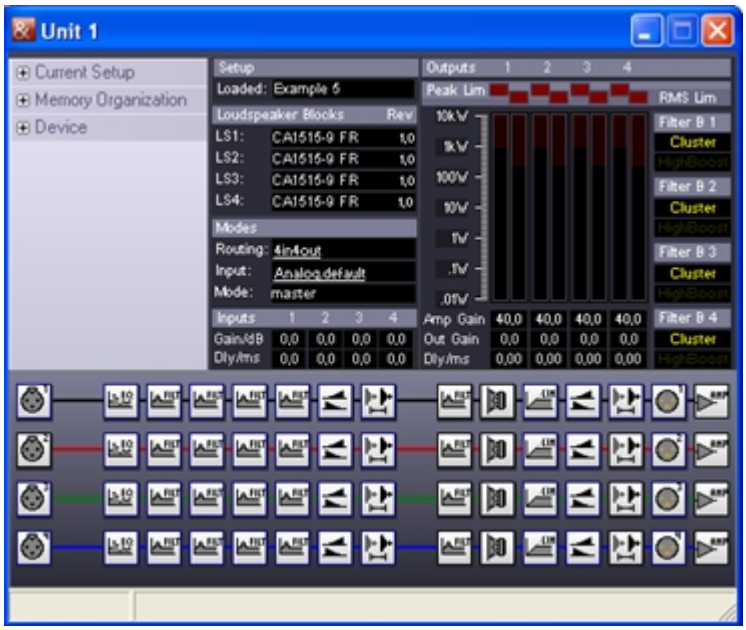
If you want to set up a system configuration, start by mapping the wired hardware in the software and adjust the setup details afterwards.

Proceed as follows:

1. Select the desired routing.
2. Select the desired input patching.
3. Select the connected speakers.
4. Adjust the individual filters, limiters, etc.
5. Create the desired master operating elements
6. For setups with several controllers, you can save the complete configuration as a scenario.

   You can find a detailed description of the system configuration in the hardware manual.

Menus in the Device Window



11.1.1 Brief Description of the Menus in the Device Window

Name	Submenu	Function
Current Setup		Load/Save active Setups from/to PC/controller
	Load from Memory	Load setup from controller
	Load from File	Load setup from PC
	Save to Memory	Save setup on controller
	Save to File	Save setup on PC
Memory Organization		Load / save without the setups in the controller being changed. (In complete backup, even the current setups will be overwritten)
	Setups	Organizing Setups
	EQ-Sets	Organize equalizer presets
	Speakers	Organize speaker sets (LSBlocks)
	Names	Function not available for user
	PrefilterRest	Function not available for user
	Complete	Load / save a backup copy of all controller data (Complete Backup)
Device		Organize general settings
	Name	Change device names
	Passwords	Change passwords
	DeviceMode	Change access rights / access mode

You can find detailed descriptions of the submenus in the following chapters.

11.2 Load and Save Current Setups (Current Setup)

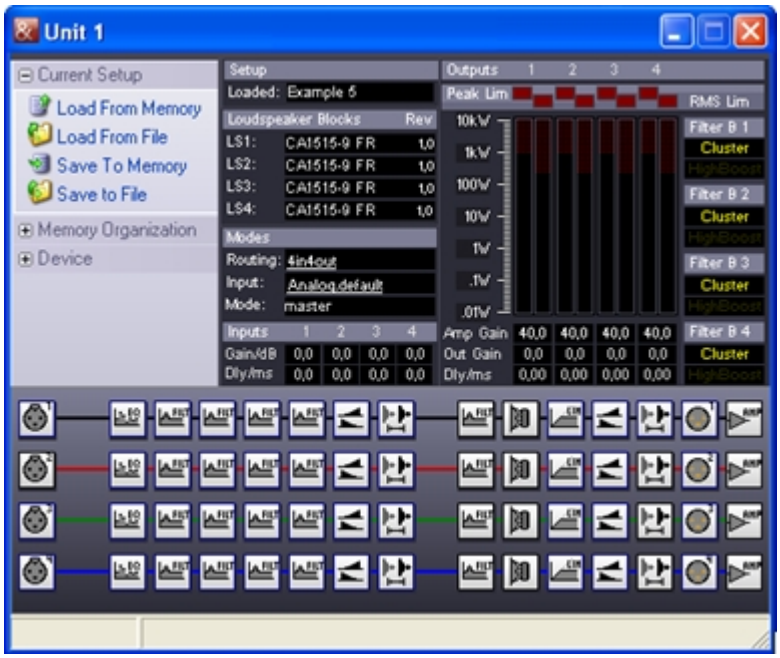
In the menu Current Setup, you can load the setups from the controller's memory or from the PC into the random access memory of the controller.

By default, the CD 24 is delivered with five (Example 1 - 5), the CD 44 with fourteen (Example 1 - 14) exemplary setups. You can change the corresponding setups and save them under another name as new setups.

A total of up to 64 setups can be saved in the controller. The file name extension .dsc is automatically assigned when you save a setup on the PC.

If you make changes in the current setup, an asterisk (*) appears under Setup Loaded:[Setupname].

This applies for setups with the same name too! If a setup is loaded from a file with [Current Setup] -> [LoadFromFile] or from a scenario, the current setup will be overwritten.



Load From Memory

Loading setups from the controller´s memory: In the device window, click [Load From Memory] -> [Selecting a file] -> [OK].

Load From File

Loading setups from the PC: With [Load From File] -> [Open], you can open the setups that are saved in the computer. In the device window, click [Load From File] -> [Selecting a file] -> [Open]. The files are saved in .dsc format (Example 1.dsc, etc.). If you want to keep your Setup in the controller, even after switching off the CD44, you have to store your Setup with [Save To Memory].

Save To Memory

Saving the current setup in the controller: In the device window, click [Save To Memory] -> [Select a name] or [new] -> [OK].

Save to File

Saving the current setup on the PC: In the device window, click [Save to File] -> [Select a path] and [Select a name] -> [Save].

The name of the setup is kept, independant of chosen file name. If you want to rename the setup in the device window (Setup Loaded:), then you must do so by first saving it in the device.

In the device window, click [Save To Memory] -> [Select a name] or [new] -> [OK].

11.3 Changing General Settings (Device)

In this menu, you can change device names, passwords, and access rights.

11.3.1 Changing the Controller Name (Name)

If you use several controllers in a network, it is essential that the controllers have different names. Otherwise, the controllers cannot be addressed in the network. You can choose any name you wish.

You can change the name as follows:

1. Open the device window.
2. Click [Device] -> [Name].
3. Enter the new name.
4. Click [OK].

11.3.2 Changing Passwords (Passwords)

You can change the passwords as follows:

1. Open the device window.
2. In the device window, click [Device] -> [Passwords].
3. Enter the administrator password.
4. Select the password that you want to change.
5. Enter the new password.

11.3.3 Changing the User Group (Device Mode)

With this function, you can choose which permission mode is effective if the device is not controlled using the software. The current mode is shown in the middle area of the device window under Mode:

You can set the mode as follows:

1. In the device window, click [Device] -> [DeviceMode]. Select the desired mode.

   If the chosen mode is lower than the original (i.e. from master to user), then no password is requested. If the chosen mode is higher than the original (i.e. from lock all to user), then the password of the newly selected mode is requested.

2. Enter the appropriate password.

11.3.4 Device Info

Besides the serial number and software revision you will find here some additional information in case of service is required.

11.4 Organizing the Controller's Memory (Memory Organization)

You can save data from the controller to the hard drive of the PC, transfer data from the PC to the memory storage of the controller, and delete data in the controller. These functions make sense if, for example, you want to transfer data sets from one controller to another, or if you want to remove non-used LS blocks from the controller in order to make the context menu for the speakers more concise.

If you move your cursor in [Memory Organization] over [Setups], [EQ-Sets] or [Speakers], you will get a quickinfo how much memory is in use and how much memory your device has at all.

11.4.1 Organizing Setups

Under [Memory Organization] -> [Setups] in the device window, you can organize the [Setups] in the controller.

1. **[Add]**

   With [Add], you can load the [Setups] from the PC to the memory of the controller. A file selection window opens where you can select the desired file with the extension [*.dsc]. Then this [Setup] is available at [Current Setup] -> [Load From Memory] and can be loaded as the current setup, if desired.

2. **[SaveToFile]**

   With [SaveToFile], you can save existing [Setups] from the controller to the PC. Multiple selections are possible. A file selection window opens where you select the path and name to save it as.

3. **[Delete]**

   With [Delete] you can delete [Setups] from the controller´s memory. Multiple selections are possible.

   The preset file path for the [Setups] is:
   My Documents or Shared Documents\KlingFreitag\CD Remote\CDX4 Setups*.dsc

11.4.2 Organizing Equalizer Presets (EQ-Sets)

CD 44 only!

Under [Memory Organization] -> [EQ-Sets] in the device window, you can organize existing EQ settings of the 31 third band EQ.

1. **[Add]**

   With [Add], you can load the [EQ-Sets] from the PC to the memory of the controller. A file selection window opens where you can select the desired file with the extension [*.dec]. Then this EQ set is available in the controller. To use the EQ-Set, double click on the following symbol of the corresponding channel:

   When you then click the button [Load], a file select window opens where you can select the desired EQ-Set (*.dec).

2. **[SaveToFile]**

   With [SaveToFile], you can save existing [EQ-Sets] from the controller to the PC. Multiple selections are possible. A file selection window opens where you select the path and name to save it as.

3. **[Delete]**

   With [Delete] you can delete [EQ-Sets] from the controller´s memory. Multiple selections are possible.

11.4.3 Organizing Speakers (LSBlocks)

At [Speakers] -> [LSBlocks] in the Device Window, you can organize 64 LSBlocks (device without extended memory) or 192 LSBlocks (CD 44 device with extended memory).

You can use the controller and the software for Kling & Freitag speakers only. The necessary parameters such as limiters and filters, etc. are preset for the respective speakers. The individual settings for the different speakers cannot be changed.

1. **[Add]**

   With [Add], you can load the [Speakers] from the PC to the memory of the controller. A file selection window opens where you can select the desired file with the extension [*.dbc]. Then this speaker is available in the controller. To use the speaker in the controller, select the following symbol of the corresponding channel:

   A selection window opens where you can select the desired speaker.

2. **[SaveToFile]**

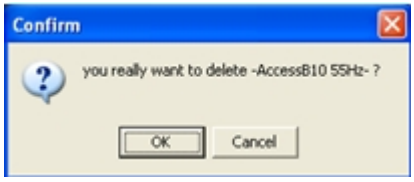
   With [SaveToFile], you can save existing [Speakers (LSBlocks)] from the controller to the PC. Multiple selections are possible. A file selection window opens where you select the path and name to save it as.

3. **[Delete]**

   With [Delete] you can delete [Speakers (LSBlocks)] from the controller´s memory. Multiple selections are possible.

   If the [Speaker (LSBlock)] is used in setups, a warning prompt appears that you must confirm by clicking [OK].

   In this case, you must first delete the setups in which the [Speaker (LSBlock)] is used. Then repeat the procedure and confirm the deletion or cancel the procedure.

   You can download the latest relevant [Speakers (LSBlocks)] from the download area of the Kling & Freitag website (www.kling-freitag.de)

   The preset file path for the [Speakers (LSBlocks)] is:

   My Documents or Shared Documents\KlingFreitag\CD Remote\LS-Blocks\

   Save the (unzipped) files with the [Speakers (LSBlocks)] at the default location in order to use them.

11.4.4 Complete Backup

With this function, you can create a backup of all data and settings of the controller (setups + EQ sets, speaker sets (LSBlocks), IP addresses, display settings, etc.).

1. **[SaveToFile]**

   You can save the controller's settings as a file on the PC.

   Click [Memory Organization] -> [Complete] -> [SaveToFile].

   Enter the desired file names. The file is then saved with the extension .dcc.

   The default file location for the settings file is: My Documents or Shared Documents\KlingFreitag\CD Remote\

2. **[LoadFromFile]**

   Click [Memory Organization] -> [Complete] -> [LoadFromFile].

   Select the backup file.

   Please note that all settings stored in the controller will be lost.

   You will be promted if you want to keep the Ethernet address and the name of the controller or if you want to load it from the file. Select the desired option.

   You can download the latest relevant [CDX4 Complete Defaults VX-XX.dcc] (these are the controller settings present at the delivery status) from the download area of the Kling & Freitag website (www.kling-freitag.de).

You can load a 'Complete Backup' of a CD44 without extended memory into a one with extended memory. All not used memory will be overrided by dummy data. To save data the oppsite direction is not possible.

Tip

Important information for users of SEQUENZA 10 N/W

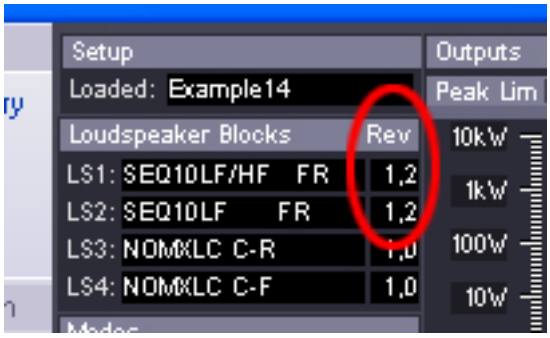
Only applies when updating the CD Remote Software from a version lower than 1.3 to a version 1.3 or higher!

After loading a Complete Backup, the controller does not contain the current SEQUENZA 10 N/W Speakers (LS Blocks) anymore, which provide the full ease of use. With the current ones the SEQ LShelv Filter will be adjusted just by clicking the number of used loudspeakers. See Chapter [Parametric Filters] on page 35.

To get this feature working you have to update the SEQUENZA Speakers (LS Blocks).

An update for enhancing the ease of use is necessary only if the revision of the SEQ Speakers (LS-Blocks) is lower than 1.4.

You will find the revision number of your Speakers (LSBlocks) in the device Window in the [Rev] column.



Without updating your SEQUENZA Speakers, you have to adjust the SEQ LShelv Filters for the SEQUENZA 10 N/W manually. See the corresponding table in chapter [Parametric Filters 'PEQ' + SEQ LShelv (Filter A Taste)] in the controllers' hardware manual.

12. Input Patching (Input Configuration)

CD 44 only!
With the input patching, you can configure the physical inputs. This way, you can, for example, correct physically flipped inputs in the controller without having to change the actual connectors, you can select if you want to connect a digital or analogue signal to the inputs or you can create a mono-sum of the inputs 1 and 2.

12.1 Available input patchings

By default, the following patchings are available.

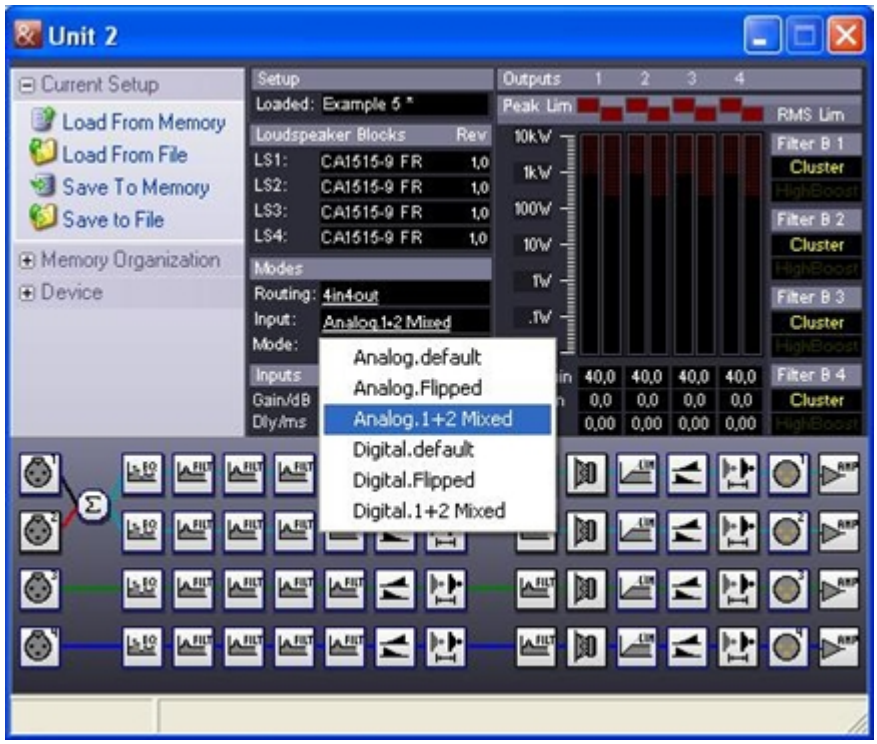
Input Patching	Function
Analog.default	Standard, analog
Analog.Flipped	1 and 2, or 3 and 4 flipped, analog
Analog.1+2 Mixed	Mono-sum of 1 and 2, analog
Digital.default	Standard, digital
Digital.Flipped	1 and 2, or 3 and 4 flipped, digital
Digital.1+2 Mixed	Mono-sum of 1 and 2, digital

You will find a detailed description of the individual patchings in the hardware manual.

12.2 Selecting Patchings

You can select the patchings available in the controller as follows:

1. In the device window, click the current patching (Modes: Input:).
2. Select the desired patching.



13. Routings

The routings determine how one or several input signals can be switched to the outputs and which path these signals will take. You can find detailed descriptions of examples with the corresponding circuitry and connection diagrams in the hardware manual.

13.1 Available routings

By default, the following routings are available.

CD 24	CD 44
1 in 4 out	1 in 4 out
1 in 4 out (Linked)	1 in 4 out (Linked)
2 in 4 out	2 in 4 out
2 in 4 out (Linked)	2 in 4 out (Linked)
2in2+MonoMix	4 in 4 out
	1 in 2 + 2 in 2
	1 in 3 + AUX
	1 in 4 in 4
	1 in 3 + 1 in 1
	2 in 4 in 4
	1 in 2 + Aux + 1 in 1

13.2 Selecting Routings

You can select the routings available in the controller as follows:

1. In the device window, click on the current [Routing].
2. Select the desired routing.

The signal path of the selected routing is depicted in the lower part of the device window.

14. Setting Filters, Limiters and Delays

You can change the individual settings for filters, the connected speakers for every channel, delays, limiters, etc. after having selected the corresponding routing and input patching for the current system configuration. The relevant icons appear in the lower area of the device window.

14.1 Overview of the Symbols

Icon	Function (shown on mouseover)
	31 band 1/3rd octave EQ (see EQ 31 Band in the hardware manual) (CD 44 only)
	Filters (see Parametric Filters and High Boost, Cluster, and Bass Boost Filter on in the hardware manual.)
	Input and Output Gains (see chapter Gains in the hardware manual.)
	Delay (see chapter Delay in the hardware manual.) (The input delay is only available for the CD 44.)
	Connected speakers (see Select LSBlock in the hardware manual.)
	Limiter (see LimReduction in the hardware manual.)
	Amp Gain (see AmpGain in the hardware manual.)

14.2 Changing Parameters

Follow the instructions for the individual settings in the hardware manual. You can change the setting as follows:

1. Double click the relevant [Icon].
2. Set the desired value.
3. Push the enter button on the PC keyboard if you have entered the values on the keyboard so that the setting will be run.

You can also make all entries using the arrow buttons or the scroll wheel of the mouse. You can also simultaneously hold down the [Ctrl] button to increase and [Alt] to decrease the increments.

The changes do not have to be saved separately on the controller, as they are immediately transferred to the controller and are saved after 5 seconds at the latest. If the main supply should be diconnected, the changes won't get lost.

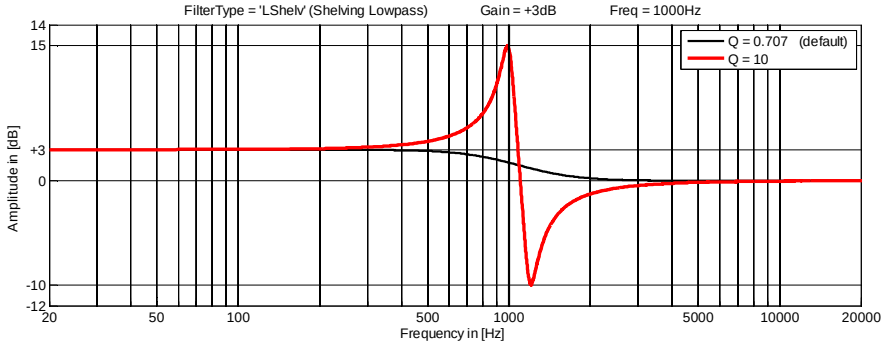
14.2.1 Parametric Filters

You will find a detailed description of the filters in the hardware manual.

LShelv (Low Shelving Filter) and HShelv (High Shelving Filter)

Tip

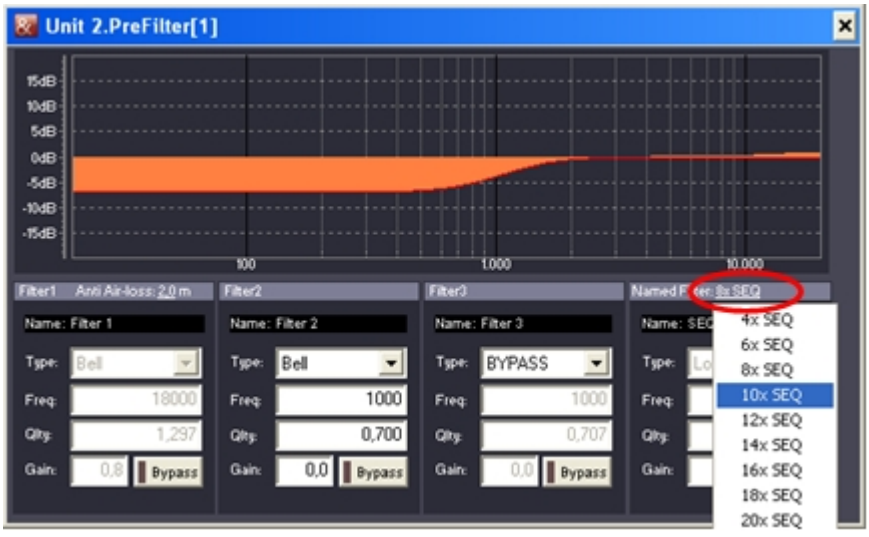
A Q higher than 0.707 is not applicable for LShelv and HShelv and may result in undesired changes in the sound (see graph). Q can be adjusted in steps of 0.001 ranging from 0.2 to 20.



SEQ LShelv

Only with the current SEQUENZA 10 N/W Speakers (LSBlocks) you can adjust the LShelv Filters for Sequenza tops by clicking the number of used loudspeakers.

To do so, click a symbol for the filters in the Device Window and, next to the entry Named Filter, click the number of SEQ shown there. In the drop-down menu, select the number of Sequenza Tops that you will use in the corresponding array. The sound engineer can fine tune the values on the controller as soon as the controller is no longer connected to the computer.



Tip

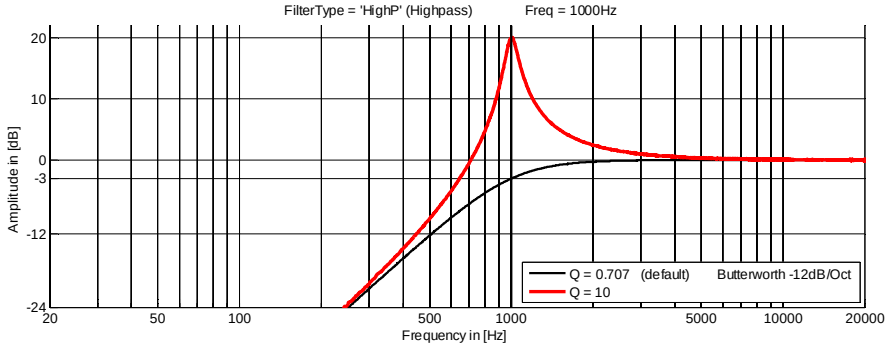
If it's not possible to change the filters by clicking the number of speakers, you are not using current SEQUENZA 10 N/W Speakers (LSBlocks).

In this case you can update the corresponding Speakers (Ls Blocks). See [Important information for users of SEQUENZA 10 N/W] in Chapter [Updating the CD Remote Software] on Page 48 f.

Without updating your SEQUENZA Speakers, you have to adjust the SEQ LShelv Filters for the SEQUENZA 10 N/W manually. See the corresponding table in chapter [Parametric Filters 'PEQ' + SEQ LShelv (Filter A Taste)] in the controllers' hardware manual.

HighP (High Pass Filter) and LowP (Low Pass Filter)

A Q higher than 1 causes a level increase of the crossover frequency.



In order to prevent an unintended level increase, the filter level is set at 0.7 by default when switching the filters. A Q of 0 results in a high or low pass of the 1st order, that is 6 dB/octave.

14.2.2 Anti Air-loss Filter

With this filter, you can compensate the high range losses over longer transmission ranges. The dissipation can be compensated using the first filter of the PreEQ's in the form of a bell filter.

You can change the setting as follows:

1. In the relevant filter, click the box next to Anti Air-Loss.
2. Enter the desired distance in metres.

As with the temperature and humidity settings under [Options] -> [GlobalSettings], the filter is set and can no longer be manually changed. By entering the distance of "0", the filter will be manually operable again with the last used values.

For setting the temperature and humidity. See Chapter [Global settings] on page 20.

Description:

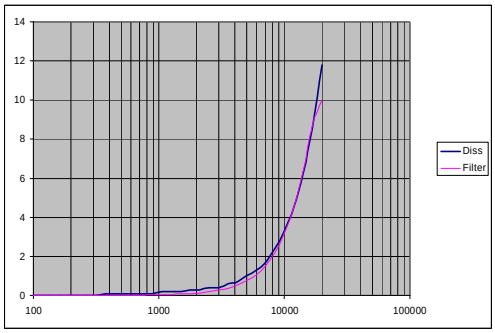
Changing the temperature or humidity in the GlobalSettings-Dialogue leads to an immediate update of the activated anti-dissipation filter while taking each distance setting into consideration.

Using the given parameters, the software calculates a compensation filter which is optimally adapted to the air absorption curve.

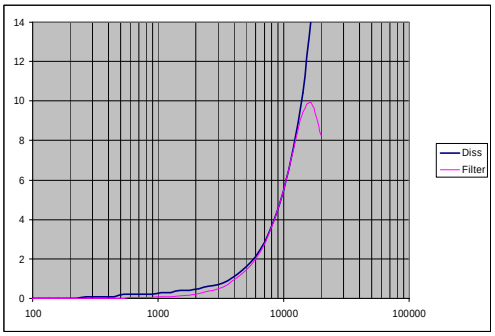
The compensation range is meticulously limited by the software so that no technically meaningless extreme corrections can take place. This way the maximum level increase is restricted to 10 dB, just like the filter middle frequency is restricted to values between 6 kHz and 20 kHz.

If such a calculated target curve results in a theoretical compensation increase above 10 dB, the maximum compensation frequency will be re-calculated.

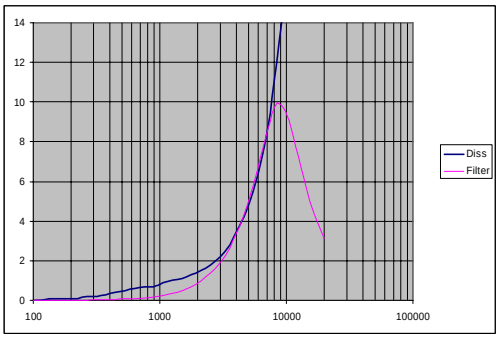
Examples:



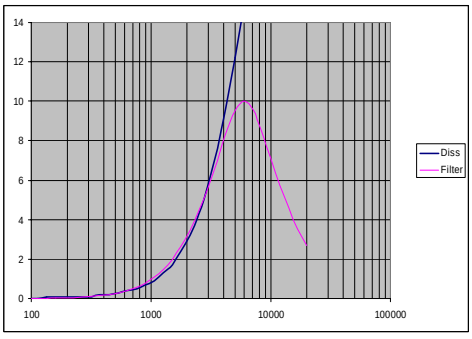
Parameters: 22°, 70%, 30m
-3dB compensation point: 21000 Hz, maximum compensation deviation: 0.24dB



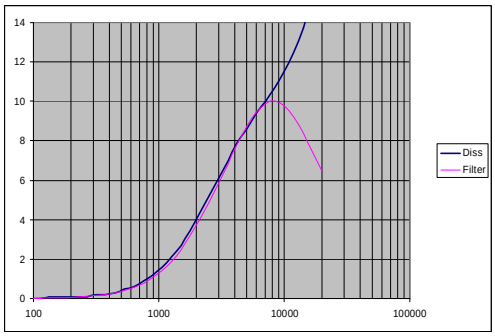
Parameters: 22°, 70%, 50m
-3dB compensation point: 15924 Hz, maximum compensation deviation: 0.273dB



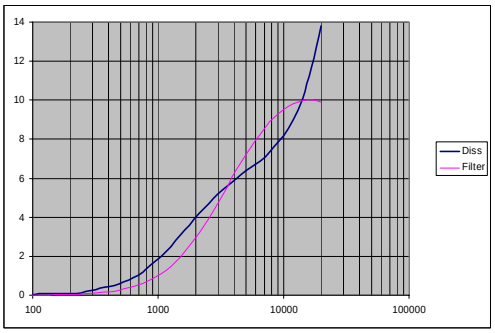
Parameters: 22°, 70%, 100m
-3dB compensation point: 10900 Hz, maximum compensation deviation: 0.45 dB



Parameters: 4°, 40%, 120m
-3dB compensation point: 4973 Hz, maximum compensation deviation: 0.24 dB



Parameters: -4°, 40%, 120m
-3dB compensation point: 8160 Hz, maximum compensation deviation: 0.34 dB



Parameters: -4°, 30%, 120m
-3dB compensation point: 16068 Hz, maximum compensation deviation: 1.5

15. Link manager, links of function blocks

For easier operating, the individual function blocks can be linked and are thus placed into a Master – Slave relationship. The operating element that takes over the controls is called the Master, and the operating elements that are controlled by the Master are called Slaves.

Aside from connecting Function Blocks within one controller, Function Blocks can also link between different devices.

The following can be linked:

1. Graphic Equalizers (CD 44 only)
2. Input Gains
3. Input Delay (CD 44 only)
4. Limit Reduction
5. Output Gain
6. Output Delay

The links between Master and Slave are relative, meaning that if the Master and Slave have different values when the links are set up, then this offset is maintained when the Master's value changes.

You can also change the Offset in the Slave later.

Example: The Gain Setting of the Master is 0 dB upon creating the link; the Slave is preset with +2dB.

If you increase the value of the Master to +4dB, the setting of the Slave also increases by +4dB to +6dB. The Offset is, therefore, +2dB.

If you would now change the Gain Setting in the Slave to +7dB, the Offset would be +3dB in the future.

The Offset is reset when you click on [Link] -> [reset] in the Device Window of the Slave or when you select [Scenario] -> [Linkmanager] -> [resync] in the window.

The Slaves thus assume the exact value of the Master.

A Master cannot become a Slave of any other element.

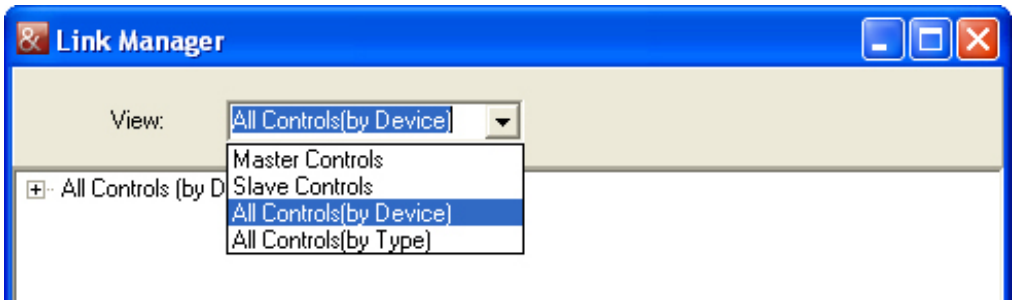
Links are only saved on the PC and will no longer be active in the controller as soon as it has been logged off the software.

15.1 Linking Function Blocks

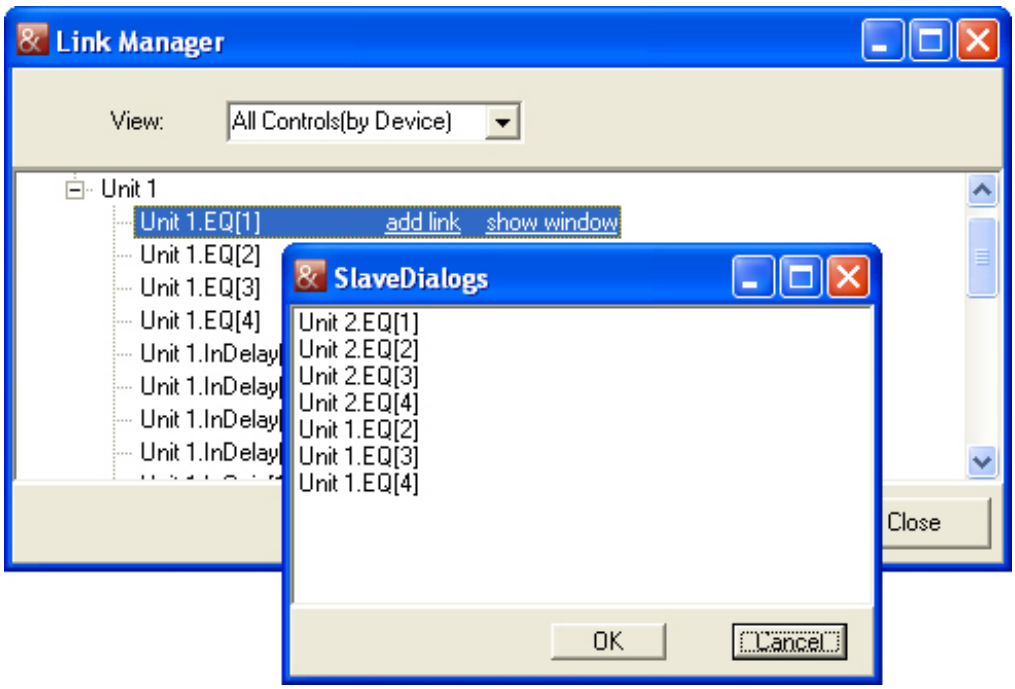
You can link the function blocks as follows:

1. Click on [Scenario] -> [Link Manager].

   In the dropdown list "View", you can determine in which sort sequence the Function Blocks shall be shown.



2. First select [add link] for the Function Block of a device that should be the Master. In the following example, this is the EQ 1 of the device "Unit 1".
3. The window "SlaveDialogs" opens. Here you can select one or several Function Blocks that are to follow the Master.



15.2 Organizing and Deleting Links

In the Link Manager, you have the possibility to manage the links:

With the following, you can:

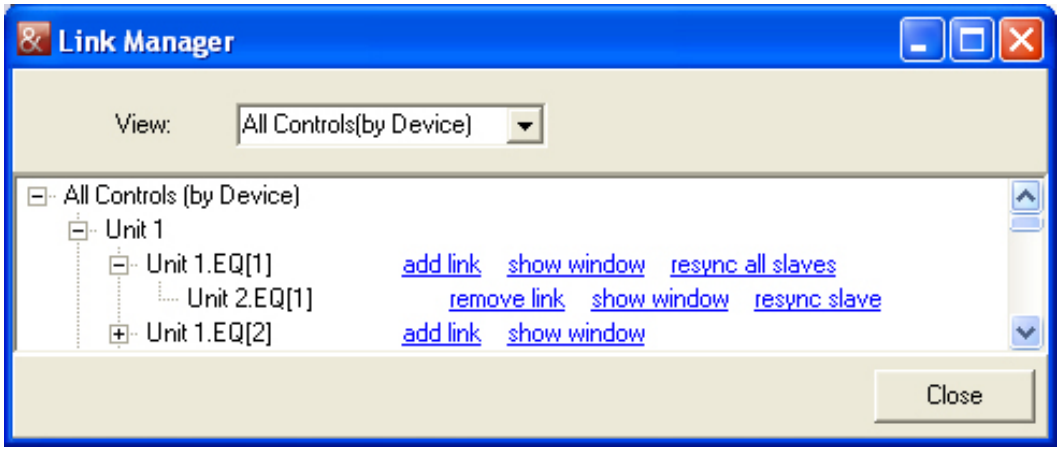
[add link] – create a new link.

[show window] – show the corresponding Device Window.

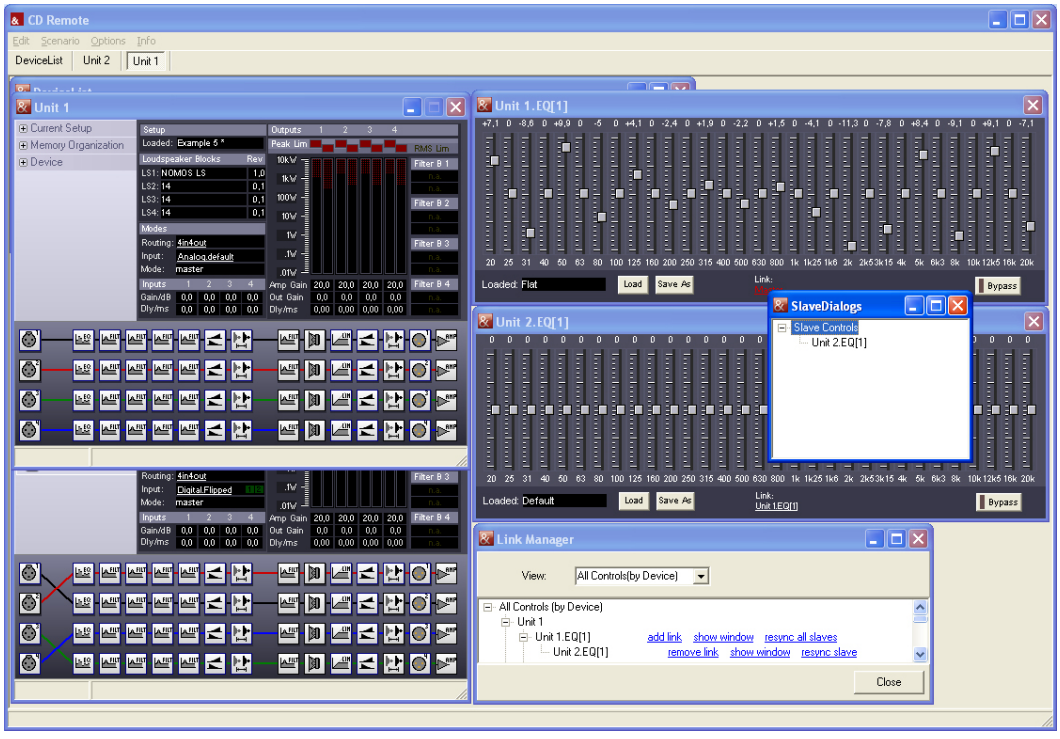
[resync all slaves] – resync all linked devices to the setting of the Master (remove Offsets).

[remove link] – delete a link.

[resync slave] – resync the settings of a linked Function Block to the settings of the Master (remove Offset)



The following example shows two linked equalizers. The equalizer of Unit 1 is the Master.



In the device window under the entry Link, you can see if the Function Block is a Master or a Slave. In the case of the device Unit 1 / EQ 1, it is a Master. If you click on the entry Master (red), a window appears that will show you which devices and Function Blocks are set as Slave.

In the case of the device Unit 2 / EQ 1, it is a Slave. Under the entry Link, you can see which device and which Function Block is a Master.

If you click on this entry, then you can use Reset to overwrite the current parameters of the Slave with those of the Master.

16. Scenarios

You can save all settings of all opened Controllers – including the setups, links and the graphic EQ-settings – onto the PC as Scenarios.
This way, you can quickly re-open all settings of several controllers and opened windows in the same position and size. This is advisable when you want to operate alternating system configurations, for example. Scenarios are saved on the PC only.

Notice

If a setup is loaded from a file with [Current Setup] -> [LoadFromFile] or from a scenario, the current setup will be overwritten.

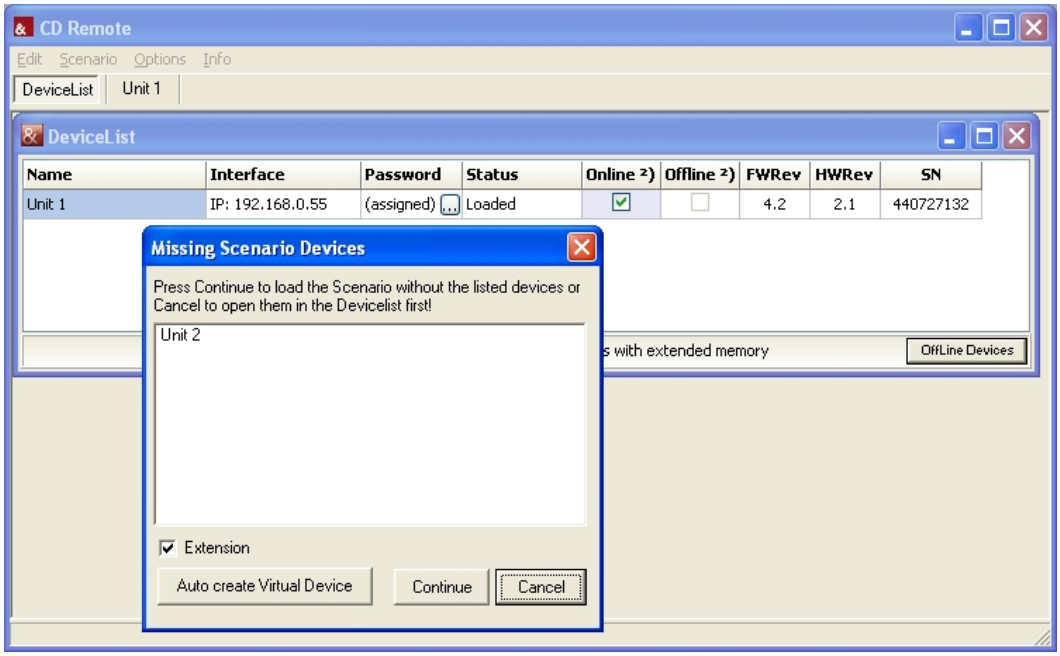
16.1 Loading Scenarios

1. In the main window, click [Scenario].
2. Click [LoadFromFile].
3. Select the relevant file.

After this, the settings of all controllers saved in the scenario are set, and all saved operating elements are opened. If one or more controllers from the scenario are not found, then this is shown in a window Missing Scenario Devices. You are asked if you want to automatically create corresponding virtual devices.

Click on [Auto create Virtual Devices] -> [Continue]. Virtual Controllers with the names of the missing controllers and the corresponding settings are automatically created this way.

The controllers saved in the scenario are identified by their name, not by their serial number or IP address.



16.2 Saving scenario

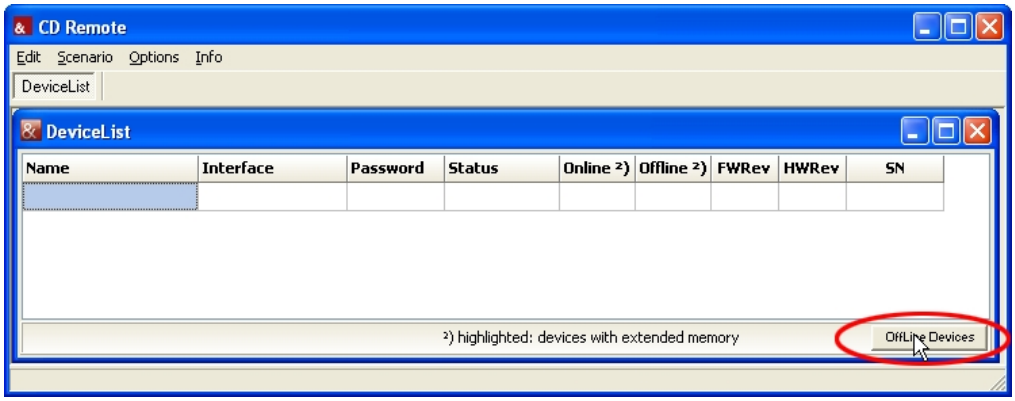
1. In the login window, click [Scenario].
2. Click [SaveToFile].
3. Enter the desired file name and click [Save].

17. Working with Virtual Controllers (Offline Devices)

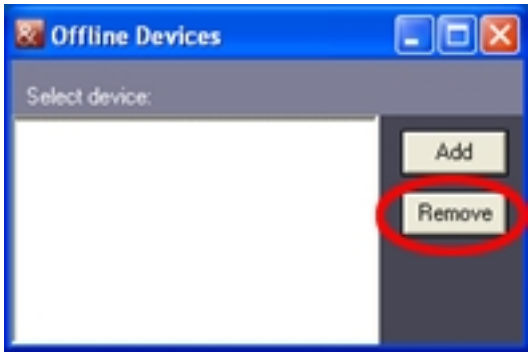
The software enables you to edit settings on virtual devices and to transfer these settings to existing controllers at a later time. This is useful if you are at a different location than the controller, but you would like to edit the settings anyway. You can also use the Offline Devices in order to get to know the software.

17.1 Creating Virtual Controllers

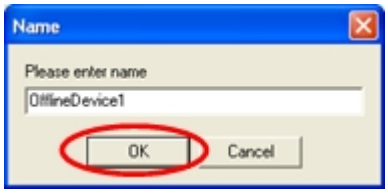
1. Start the software. Click [Start] -> [All Programs] -> [KlingFreitag CD Remote] -> [CD Remote].



2. Click on [Offline Devices] -> [Add].

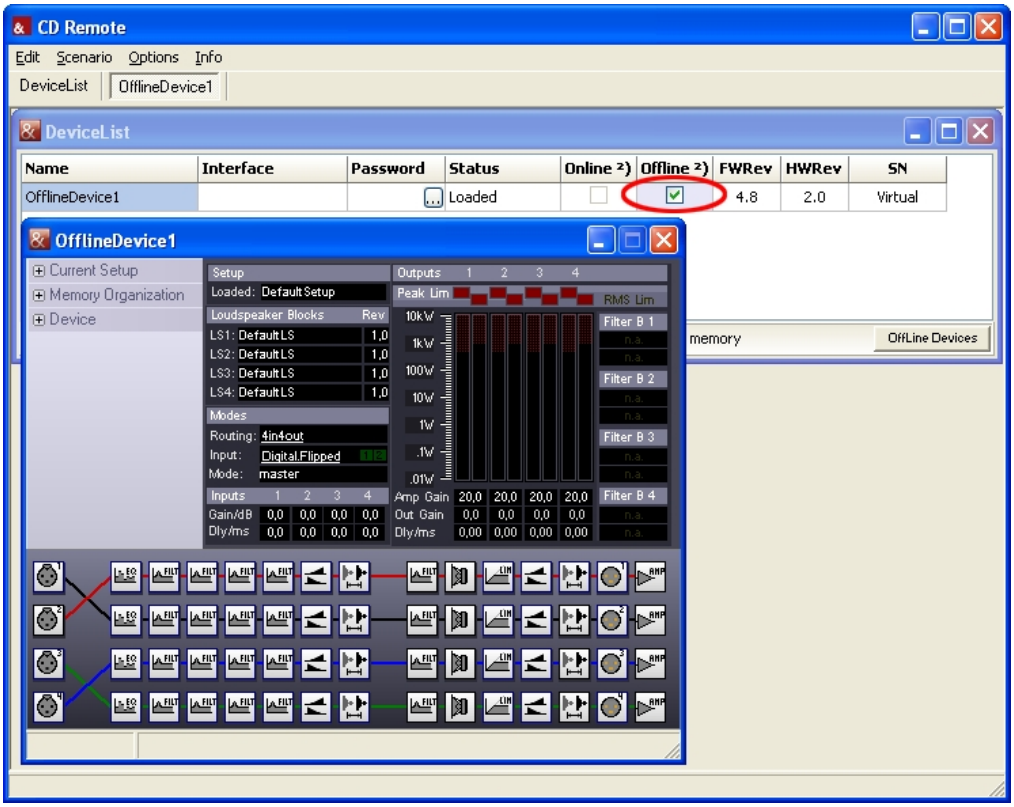


3. Choose a name for the virtual controller. Click [OK]. Please note that the name cannot contain more than 15 characters.



4. You will be asked, if you like to create a virtual device with or without extended memory. The virtual device must correspond to your real one.
5. Close the window [Offline Devices] when you do not want to add or remove any more devices.

6. Activate the control box [Offline]. The Device Window opens, and you can edit settings of the virtual controller. As with an existing controller, you can also create, save and load all settings.



If you create a virtual controller with the name of a real controller, then only one device will appear for both controllers in the DeviceList. In this case, you can switch back and forth between the devices by activating and deactivating the checkbox [Online] or [Offline].

Please note that from now on, any settings that you edit on the real or virtual controller are not automatically transferred. If you change the real controller, you must save these changes and load them in the virtual controller. If you edit the virtual controller, you must also save these changes in order to load them in the real controller.

17.2 Deleting Virtual Controllers

1. In the main window, click [Offline Devices].
2. Select the virtual controller(s) that you wish to delete in the window [Offline Devices].
3. Click [Remove].
4. Close the window [Offline Devices].

17.3 Transmitting Settings between Virtual and Real Controllers

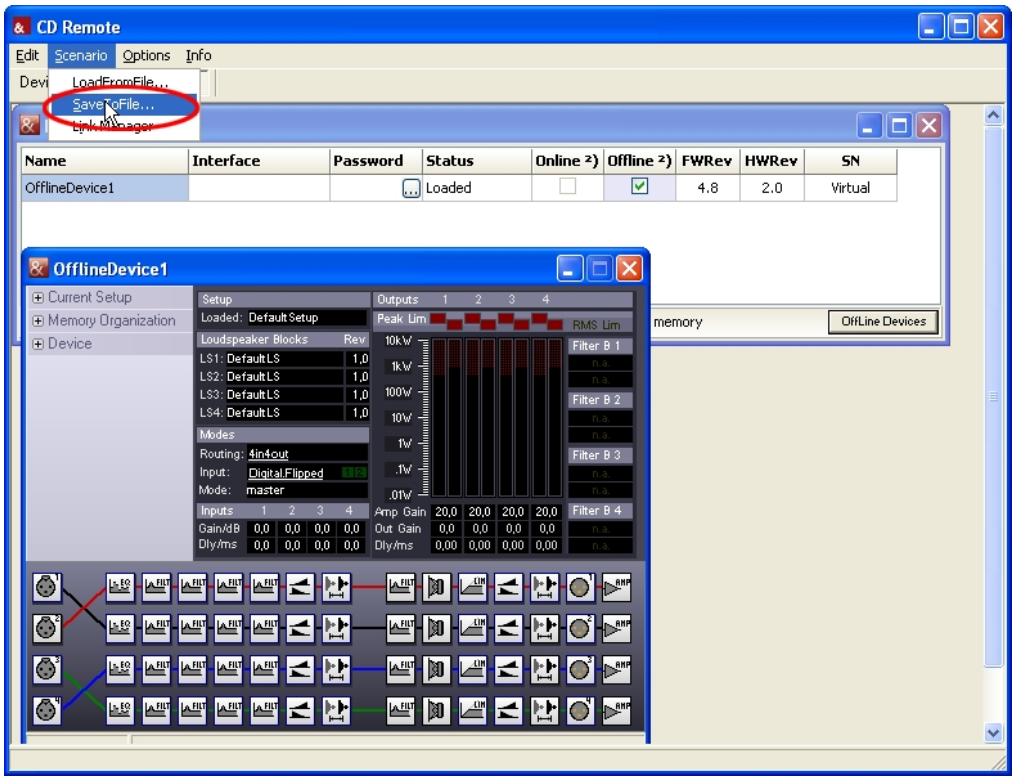
You can load all saved settings and files from virtual controllers in real controllers. You can also load all settings and files from real controllers in virtual controllers. You must only take special steps with the Scenarios, which we have described as follows:

17.3.1 Transfer Scenarios from Virtual Controllers to Real Controllers

Scenarios require the controller names of the used controllers. For this reason, the names of the virtual controllers must be the same as the names of the real controllers.

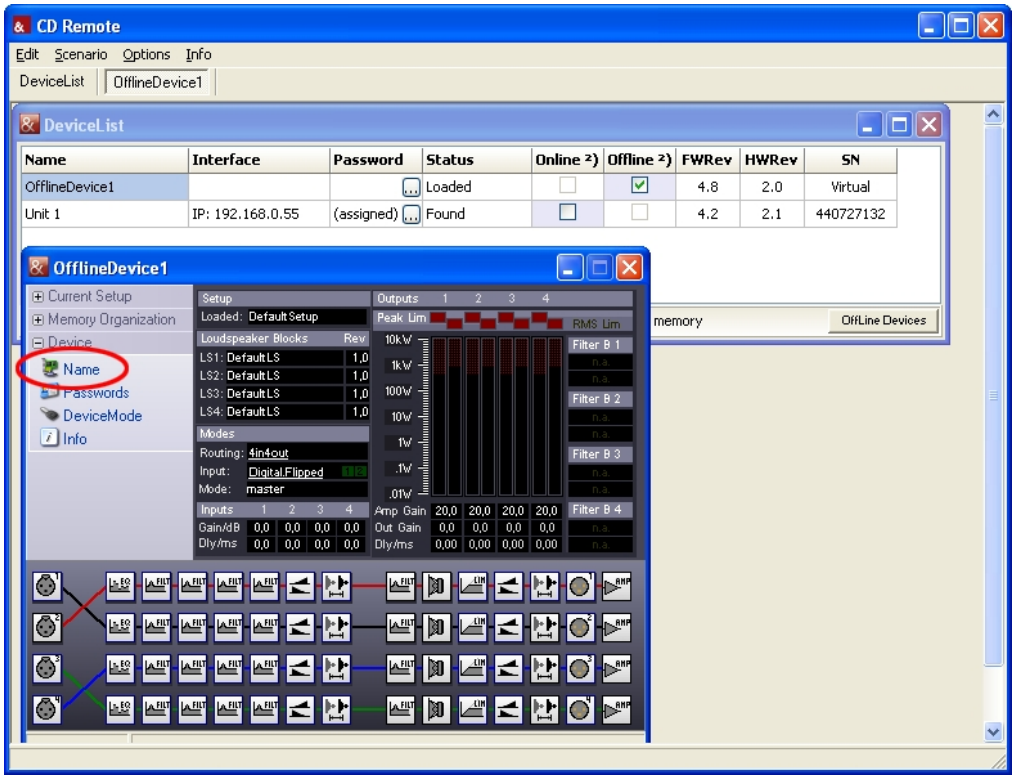
If you want to transfer the Scenarios from virtual controllers to real controllers, proceed as follows:

1. Create the desired number of virtual controllers and edit the settings as necessary.
2. In the login window, click [Scenario] -> [SaveToFile]. Give the file the desired name. Click [Save].



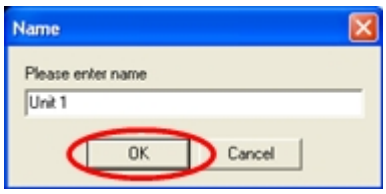
3. Login the real controller in the software. See Chapter [Starting the Software and Logging On the Controller] on page 16.
4. For the real controller, the checkbox [Online] must be deactivated; for the virtual controllers, the checkbox [Offline] must be activated.

5. In the device window of the virtual controller:



Click on [Device] -> [Name].

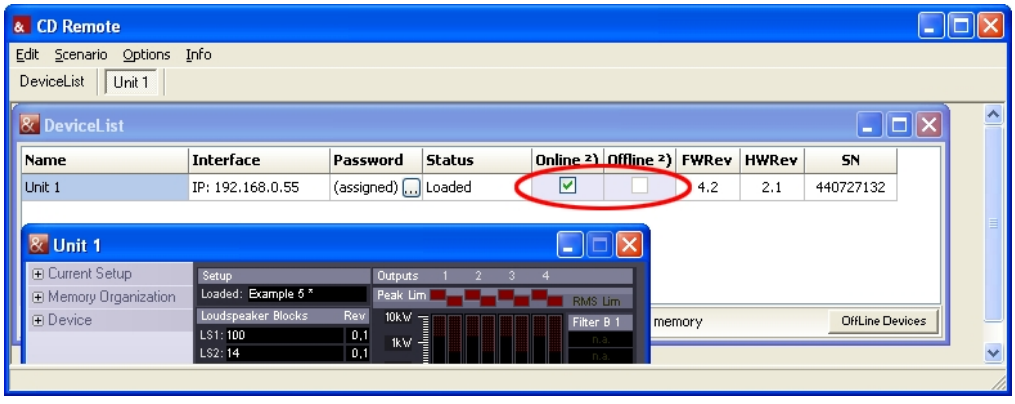
6. Give the virtual controllers the same name as the corresponding real controllers – in our examples "Unit 1" and "Unit 2" – and confirm the entry with [OK].



7. In the login window (DeviceList), there is just one device listed for the virtual and the real controller.

8. Save the Scenario. [Scenario] -> [SaveToFile]

9. Deactivate the checkbox [Offline] and, instead of that, activate the checkbox [Online]. By going through this procedure, you switch from the virtual controller to the real controller.



10. Then you must load the Scenario at [Scenario] -> [LoadFromFile] in the real controller. You have now transferred the Scenario that you have virtually created to the real controller.

Please note that from now on, any settings that you edit on the real or virtual controller are not automatically transferred. If you change the real controller, you must save these changes and load them in the virtual controller. If you edit the virtual controller, you must also save these changes in order to load them in the real controller.

18. Updating the CD Remote Software

Load the latest version of the software from the download area of the Kling & Freitag website (www.kling-freitag.de).
Copy the file [CD Remote Installer Vx-xx.zip] onto your PC. Unzip the file and double click [CD Remote Installer VX-XX.exe] . The setup programme provides for the de-installation of the previous version. You can choose if you want to repair or uninstall the existing installation.

After this, open the file [CD Remote Installer VX-XX.exe] again and follow the installation instructions on the PC monitor.

Notice

Passwords will be reset to the default passwords after updating the software.

- After updating the software the user-mode password is **user**.
- After updating the software the master-mode password is **master**.

We recommend that the owner of the controller changes the user and master passwords before others use it. This ensures that no settings are made by unauthorised persons, which could result in the malfunction or damage of speakers.

See Chapter [Passwords and Access Rights] on page 14.

A CD44 with extended memory is only compatible with a CD Remote Software whose version is higher than 1.4.3!

Tip

Important information for users of SEQUENZA 10 N/W

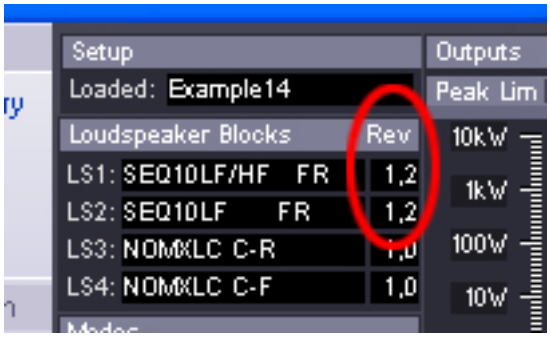
Only applies when updating the CD Remote Software from a version lower than 1.3 to a version 1.3 or higher!

After loading a complete backup, the controllers still do not contain the current SEQUENZA 10 N/W Speakers (LS Blocks), which provide the full ease of use. With the current ones the SEQ LShelv Filter will be adjusted just by clicking the number of used loudspeakers. See Chapter [Parametric Filters] on page 35.

To get this feature working you have to update the SEQUENZA Speakers (LS Blocks).

An update for enhancing the ease of use is necessary only if the revision of the SEQ Speakers (LS-Blocks) is lower than 1.4.

You will find the revision number of your Speakers (LSBlocks) in the device Window in the [Rev] column.



Without updating your SEQUENZA Speakers, you have to adjust the SEQ LShelv Filters for the SEQUENZA 10 N/W manually. See the corresponding table in chapter [Parametric Filters 'PEQ' + SEQ LShelv (Filter A Taste)] in the controllers' hardware manual.

How to update the SEQUENZA 10 N/W Speakers (LSBlocks):

- Start the software.
- Login the real controller in the software.
- In the device window, click [Current Setup] -> [Load From File].
- Load the file [SEQ LS Update.dsc]. The default directory is: my documents or shared documents\KlingFreitag\CD Remote\CD44 Setups\
- Confirm 4 times by clicking [OK] to overwrite all obsolete Speakers (LSBlocks).
- Now your Speakers are updated.

19. Replacing the IP Card and Updating the Firmware

19.1 Safety Instructions

Warning

Only the operations described in this manual (Replacing the "IP-Karte") may be carried out on the opened controller. In this respect, there is a deviation from the corresponding regulation in the Terms and Conditions.

Because of the complexity of electric circuits, these tasks can only be carried out by personnel trained in electro technology. Otherwise, the safety of the products is not guaranteed.

Before opening the controller, disconnect the power plug.

19.2 Replacing the IP Card

CD 44 only!

1. Using a 2 mm Allen key, remove the front and rear screws on the left side panel of the controller.
2. Loosen the front and rear screws on the right side panel of the controller. These screws don't have to be entirely removed.
3. Remove the left side panel and pull the top cover of the controller approx. 10 cm to the left.

The IP card is positioned upright behind the Ethernet connection. You can recognize a new card by the version number on the back side.

4. Remove the old card by pulling it upwards and inserting the new card (version V4.0 or higher).
5. Make sure that the new card is securely inserted into the slot.
6. Push the cover closed again.
7. Re-attach the side panel. Make sure that the guide track is facing down.
8. Tighten the screws again.

19.3 Updating the Firmware

Since version 4.0 only the CD 44 firmware is still under development. The name of the program for the CD 44 is [CD44Flashloader.exe]. The one for the CD 24 is [Flashloader.exe].

It is possible, that newer versions slightly differ from the described process. In that case you will be guided by a dialog of the installer itself.

IMPORTANT INFORMATION BEFORE STARTING THE FLASHLOADER SOFTWARE!

Because of the update, the firmware is re-programmed into the controller. This process must in no way be interrupted; otherwise, in the worst case scenario, the controller may no longer work afterwards.

Make sure, that you exactly know which of your devices you want to update. Write down following information of your CD44:

- device without extended memory (standard)
- device with extended memory (there is a '192' sticker on the front)
- the actual IP-Address

It is important that:

- all wires are connected securely and are not removed during the download.
- the computer is not running any other computationally intensive programs.
- the download does not take place via an Ethernet connection in which other users are transferring large amounts of data. If possible, use a direct connection to the computer.

If you have created your own Setups or EQ Sets, then save these on your PC before updating the firmware. See Chapter [Organizing the Controller's Memory (Memory Organization)] on page 27.

Do not save a memory backup of the controller with [Complete]. When you load this backup after an update, important newer files are overwritten with the old files from the backup. This is especially important for speaker blocks and input patchings.

After the successful firmware update, you must also load the current version of the file [CDX4 Complete Defaults VX-XX.dcc] so that the extended input patching can be organized correctly and the current Speakers (LSBlocks) are available.

Firewall

Set your firewall so that the Flashloader is not blocked.

19.3.1 Downloading Firmware

You can download a file with the current firmware version from the Kling & Freitag website (www.kling-freitag.de).

19.3.2 Starting the Flashloader

The Flashloader for the firmware update is included in the installation package of the remote software.

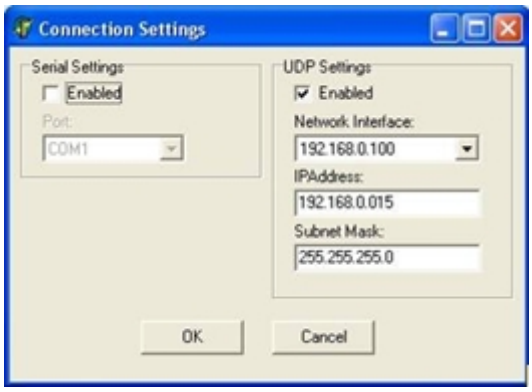
1. **CD 24:** Click [Start] -> [All Programs] -> [KlingFreitag CD Remote] -> [Flashloader.exe].

   CD 44: Click [Start] -> [All Programs] -> [KlingFreitag CD Remote] -> [CD44Flashloader.exe].

2. **CD 24:** Activate [Serial Settings Enabled] and select the appropriate COM-Port number.

   CD 44: Activate [UDP Settings] and select the appropriate IP number.

   The IP-Address is set by default at delivery. If you have changed the address in the CD 44, then you must enter this new address here.



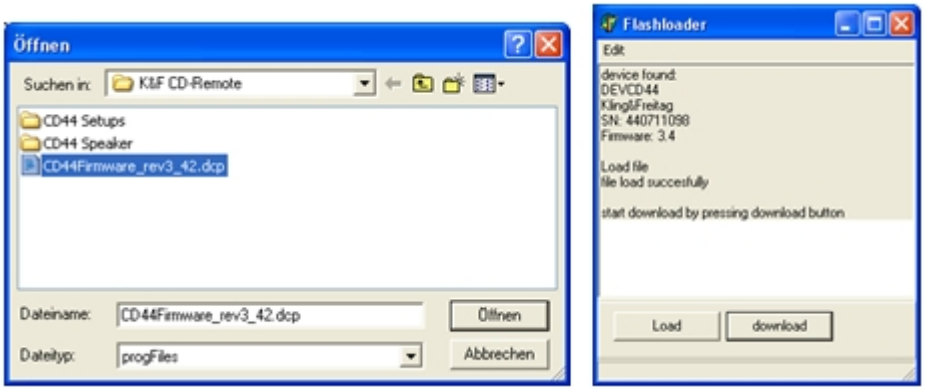
3. Click [OK].
4. After the controller has been recognized, click [Load].

5. **CD 24:** Select the file name beginning with "CD24Firmware".

   CD 44: Select the file name beginning with "CD44Firmware". For devices with extended memory, select the file which ends with '_192'.

   If you have several files available for one controller, select the one with the highest version number.

6. Click [Open] and afterward [Download].



Then 2 files will be installed. The display of the controller shows [bootloader...]. The transfer takes about 4 minutes. After the installation of the first file, the controller re-starts and shows the normal display for a moment. After about 10 seconds, the download of the 2nd file begins, and [boot] is shown in the display again.

After the second file has been installed, the controller once again shows its normal display. The "Download" window disappears and "download finished" is shown.

7. Close the Flashloader software.
8. Switch off the controller and then on again (disconnect and reconnect the power plug).

Notice

9. After the successful firmware update, you must also load the current version of the file [CDX4 Complete Defaults VX-XX.dcc] so that the extended input patching can be organized correctly and the current Speakers (LSBlocks) are available. Unlike in your old version, the input patching is also saved in the setups; therefore, Analog or Digital, too. See Chapter [Organizing the Controller's Memory (Memory Organization)] on page 27.

Now the controller can be operated with the remote software.

Tip

If the controller is not found, close the Flashloader software and disconnect the controller's power plug. Only start the Flashloader after the controller has been booted.

If the download of the second file does not continue after 30 seconds at the latest, then the Flashloader software must be stopped with the Windows task manager, and the controller must be disconnected from the power for a moment (switch the controller off and on again). Make sure that the correct IP card is actually in the CD 44. Re-start the Flashload procedure.

If "no device found" is shown in the Flashloader window, you cannot begin the update. In this case, do not click on the download button, but stop the program using the task manager. First establish a connection with the controller and then re-start the procedure.

In the case your CD44 shows 'wrong firmware' on the display , you probably have chosen the wrong firmware (see step 5 and 6). You have to start the whole procedure from step 1again.

20. Index

INDEX

- Access rights..... 14,23,25
- Access rights: calling the controller..... 17
- Backup..... 30
- Backup Copy..... 7,10,23,23,30
- Changing the Controller Name..... 25
- Complete Backup..... 30
- Connection of the CD 24 12
- Creating links..... 39
- Delay in meters/milliseconds..... 20
- DeviceList..... 9
- Device Mode..... 26
- Device Window..... 7,9
- Dynamic IP addresses..... 13
- EQ-Set..... 7
- EQ-Sets..... 23,28
- Ethernet..... 12
- Example..... 8
- Firmware..... 7
- Function Blocks..... 7
- General Settings..... 25
- Input Patching..... 7,32,32
- Link Manager..... 39
- Links..... 7
- Load From File..... 23
- Load From Memory..... 23
- Login Window..... 9,21
- Main Window..... 9
- Memory..... 7
- Memory Organization..... 23,27,27
- Mono-sum..... 32
- Offline..... 7
- Offline Devices..... 44
- Online..... 8
- Password: calling the controller..... 17
- Protecting the software from unauthorized access..... 17
- Rights: Master..... 14
- Rights: User..... 14
- Routing..... 33
- Routings..... 8
- RS232..... 10
- Save to File..... 24
- Save to Memory..... 23
- Saving scenario..... 18,43
- Scenario..... 8,43
- Selecting IP Addresses..... 16

• Selecting the COM Port..... 17
• Setting IP Addresses for the PC.....13
• Setting the delays..... 34
• Setting the IP Address on the CD 44 14
• Setups..... 8,23,23,23,27,27,43
• Software..... 8
• Speakers.....8,23,29
• Symbols.....6
• Transfer Scenarios..... 46
• Transmission loss, air.....36
• Updating the CD Remote Software.....48
• User groups..... 26